

Basic Survey (Radiation Dose Estimates) Reported on 25 December 2014

1. Response Rates and Radiation Dose Estimates

1.1 Response Rates of Residents

The overall effective response rate to the Basic Survey (radiation dose estimates), which targeted the entire population of Fukushima Prefecture, was 26.9% (553,418/2,055,383) as of 31 October 2014. Response rate of the simplified questionnaire was 3.1% (62,805/2,055,383). (See Table 1)

Table 1 Response rates to the Basic Survey As of 31 October 2014			
Target population		2,055,383	
Response	Original questionnaire	490,613	23.9%
	Simplified questionnaire*	62,805	3.1%
	Total	553,418	26.9%
*Preliminary figures Fractions have been rounded.			

The following tables show the results of the original and simplified questionnaires combined.

Since we started providing the simplified questionnaire around a year ago, the response rates have increased especially in the areas where the proportion had been low. In Minami-aizu, the increase was 6.6% (from 13.4 to 20.0%). (See Table 2)

Table 2 Response rates by area								
	Kempoku	Kenchu	Kennan	Aizu	Minami-aizu	Soso	Iwaki	Total
30 Sept. 2013 (a)	26.5%	20.9%	17.6%	15.1%	13.4%	44.4%	21.9%	23.6%
31 Oct. 2014 (b)	29.8%	23.7%	21.9%	20.9%	20.0%	45.4%	25.0%	26.9%
Difference (b-a)	3.3%	2.8%	4.3%	5.8%	6.6%	1.0%	3.1%	3.3%

1.2 Radiation Dose Estimates

Doses have been estimated for 531,691 of 553,418 respondents (96.1%) as of 31 October 2014, and the results have been returned to 512,194 respondents (Table 3).

Table 3 Response rates to the Basic Survey							
As of 31 October 2014							
Area(preceding and full-scale surveys)	Target population a	Response b	Response rates c=b/a	Completed dose estimation d	Proportion e=d/b	Returned results f	Proportion g=f/b
Kempoku	504,062	150,123	29.8%	144,637	96.3%	140,301	93.5%
Kenchu	557,266	131,995	23.7%	127,871	96.9%	123,944	93.9%
Kennan	152,229	33,362	21.9%	31,969	95.8%	29,868	89.5%
Aizu	267,205	55,891	20.9%	52,542	94.0%	47,532	85.0%
Minami-aizu	30,787	6,169	20.0%	5,736	93.0%	4,999	81.0%
Soso	195,608	88,895	45.4%	86,156	96.9%	85,536	96.2%
Iwaki	348,226	86,983	25.0%	82,780	95.2%	80,014	92.0%
Total	2,055,383	553,418	26.9%	531,691	96.1%	512,194	92.6%

Including Yamakiya of Kawamata, Namie and Iitate.

We have been estimating doses for non-residents who were visiting or staying in Fukushima Prefecture at the time of the accident (Table 4).

Table 4 Response rates to the Basic Survey						
(Visitors)						
As of 31 October 2014						
Number of requests a	Responses b	Response rate c=b/a	Completed dose estimates d	Proportion e=d/b	Returned results f	Proportion g=f/b
3,858	2,125	55.1%	1,869	88.0%	1,864	87.7%

2. Results of Radiation Dose Estimates

Table 5 shows the numbers of completed dose estimates (see Table 3) —excluding the data in the estimation period less than four months—within a range of values.

Radiation doses for a total of 453,183 residents have been estimated to date. The results for 444,362 respondents (excluding radiation workers) suggest that the doses for about 87% of the respondents in Kempoku area and about 92% in Kenchu area were <2 mSv. The doses for approximately 88% of the respondents in Kennan area and more than 99% of those in Aizu and Minami-aizu areas were <1 mSv. Doses for about 78% of respondents in the Soso area and more than 99% of respondents in Iwaki were also <1 mSv.

Effective Dose (mSv)	Total	Excluding radiation workers				By area (excluding radiation workers)													
						Kempoku *		Kenchu		Kennan		Aizu		Minami-aizu		Soso **		Iwaki	
<1	281,706	276,227	62.2%	93.9%	99.8%	24,368	20.2%	55,611	51.7%	24,025	88.4%	42,758	99.3%	4,618	99.3%	55,068	77.6%	69,779	99.1%
1-2	143,261	141,003	31.7%	80,736		67.0%	43,863	40.7%	3,127	11.5%	272	0.6%	32	0.7%	12,362	17.4%	611	0.9%	
2-3	24,618	24,261	5.5%	5.8%		14,810	12.3%	7,751	7.2%	15	0.1%	21	0.0%	0	-	1,637	2.3%	27	0.0%
3-4	1,516	1,441	0.3%	0.2%		452	0.4%	406	0.4%	0	-	1	0.0%	0	-	579	0.8%	3	0.0%
4-5	536	494	0.1%	0.1%		39	0.0%	5	0.0%	0	-	0	-	0	-	449	0.6%	1	0.0%
5-6	429	376	0.1%	0.2%	18	0.0%	3	0.0%	0	-	0	-	0	-	354	0.5%	1	0.0%	
6-7	264	226	0.1%		10	0.0%	1	0.0%	0	-	0	-	0	-	215	0.3%	0	-	
7-8	151	114	0.0%		1	0.0%	0	-	0	-	0	-	0	-	113	0.2%	0	-	
8-9	113	73	0.0%		1	0.0%	0	-	0	-	0	-	0	-	72	0.1%	0	-	
9-10	69	39	0.0%		0	-	0	-	0	-	0	-	0	-	39	0.1%	0	-	
10-11	66	34	0.0%	0.0%	0	-	0	-	0	-	0	-	0	-	34	0.0%	0	-	
11-12	52	31	0.0%		1	0.0%	0	-	0	-	0	-	0	-	30	0.0%	0	-	
12-13	35	13	0.0%		0	-	0	-	0	-	0	-	0	-	13	0.0%	0	-	
13-14	34	12	0.0%		0	-	0	-	0	-	0	-	0	-	12	0.0%	0	-	
14-15	27	6	0.0%		0	-	0	-	0	-	0	-	0	-	6	0.0%	0	-	
≥15	306	12	0.0%	0.0%	0	-	0	-	0	-	0	-	0	-	12	0.0%	0	-	
Total	453,183	444,362	100.0%	100.0%	100.0%	120,436	100%	107,640	100%	27,167	100%	43,052	100%	4,650	100%	70,995	100%	70,422	100%
Max	66mSv	25mSv				11mSv		6.3mSv		2.6mSv		3.6mSv		1.9mSv		25mSv		5.9mSv	
Mean value	0.9mSv	0.8mSv				1.4mSv		1.0mSv		0.6mSv		0.2mSv		0.1mSv		0.8mSv		0.3mSv	

* Including Yamakiya of Kawamata.

Percentages have been rounded and may not total to 100%.

** Including Namie and Iitate.

Excluding those with estimation period less than four months.

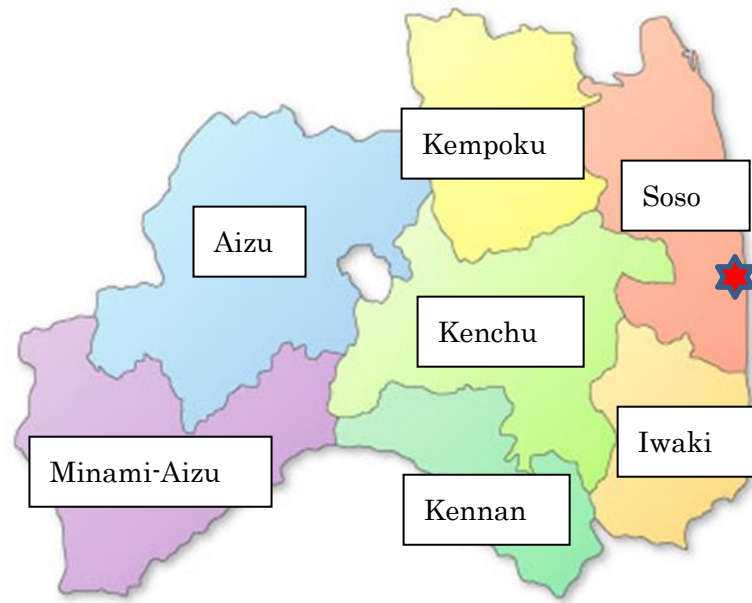
3. Evaluation of the results

The latest effective radiation dose estimates showed similar trends to those observed so far.

Since previous epidemiological studies¹ indicate no significant health effects at doses ≤100 mSv, we concluded that radiation doses estimated so far are unlikely to cause adverse effects on health, although this conclusion is based on external radiation doses estimated only for the first four months following the accident.

References

- 1) Sources and effects of ionizing radiation, United Nations Scientific Committee on the Effects of Atomic Radiation, UNSCEAR 2008 Report to the General Assembly, with scientific annexes.



Survey on the representativeness of dose distribution shown in the Basic Survey (Tentative plan)

1. Background and Purpose

At the 16th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey, questions were raised about whether people who have responded to the Basic Survey represent the whole population in regard to external dose estimates and dose distribution. To answer this, we will investigate how the dose distribution of as yet nonrespondents compares with respondents on a geographic area-by-area basis.

2. Survey Population

We plan to use a two-stage sampling method based on nationwide and prefecture-wide polls.¹ As a first step, we will randomly select geographic areas for polling, with special weight given to evacuation zones. In the next step, we will randomly select a total of around 4,000 to 5,000 samples throughout the prefecture.

3. Methods

After reviewing the responses, we will visit nonrespondents to conduct a series of questions starting in early fiscal (FY) 2015.² To meet the need for a large workforce, we will outsource and hire polltakers who will visit nonrespondents to support filling out the questionnaires. This enables us to ask them why they did not answer the questionnaire, and encourage their cooperation. If they are not home, a polltaker will visit them again to raise the response rates. This door-to-door survey should be completed by the end of FY 2015.

4. Results

We will estimate the doses for all respondents. By comparing the dose distribution of the respondents from the door-to-door survey and those who responded previously by mail, we will find out if what has already been reported is an accurate and unbiased assessment of dose distribution for the whole population of Fukushima Prefecture.

Reasons gathered from the respondents for not answering the questionnaire will be categorized and tallied to guide how the instructions for filling out the questionnaire and the Basic Survey might be improved.

1) The cabinet office typically selects 3,000 to 10,000 samples for a nationwide poll.

2) Japan's fiscal and academic year begins April 1.

Response rates to the Basic Survey by district

Preceding and full-scale surveys

As of 31 October 2014

Area	District	Target population	Response	Response rates	Completed dose estimation	Proportion	Returned results	Proportion
		a	b	c=b/a	d	e=d/b	f	g=f/b
Kempoku	Fukushima	295,654	93,181	31.5%	90,040	96.6%	87,076	93.4%
	Nihonmatsu	60,859	16,247	26.7%	15,653	96.3%	15,258	93.9%
	Date	67,581	18,156	26.9%	17,447	96.1%	16,927	93.2%
	Motomiya	31,766	8,711	27.4%	8,194	94.1%	7,964	91.4%
	Kori	13,207	3,866	29.3%	3,739	96.7%	3,662	94.7%
	Kunimi	10,316	2,976	28.8%	2,862	96.2%	2,802	94.2%
	Kawamata	15,886	5,083	32.0%	4,889	96.2%	4,856	95.5%
	Otama	8,793	1,903	21.6%	1,813	95.3%	1,756	92.3%
	Subtotal	504,062	150,123	29.8%	144,637	96.3%	140,301	93.5%
Kenchu	Koriyama	339,736	83,992	24.7%	81,587	97.1%	78,967	94.0%
	Sukagawa	80,162	16,642	20.8%	16,037	96.4%	15,541	93.4%
	Tamura	41,726	10,012	24.0%	9,594	95.8%	9,436	94.2%
	Kagamiishi	13,109	2,851	21.7%	2,770	97.2%	2,690	94.4%
	Tenei	6,469	1,169	18.1%	1,131	96.7%	1,005	86.0%
	Ishikawa	17,490	4,156	23.8%	4,023	96.8%	3,917	94.2%
	Tamakawa	7,338	1,468	20.0%	1,417	96.5%	1,380	94.0%
	Hirata	7,057	1,630	23.1%	1,563	95.9%	1,522	93.4%
	Asakawa	7,163	1,476	20.6%	1,433	97.1%	1,385	93.8%
	Furudono	6,319	1,296	20.5%	1,247	96.2%	1,219	94.1%
	Miharu	18,994	4,766	25.1%	4,620	96.9%	4,525	94.9%
	Ono	11,703	2,537	21.7%	2,449	96.5%	2,357	92.9%
	Subtotal	557,266	131,995	23.7%	127,871	96.9%	123,944	93.9%
Kennan	Shirakawa	65,428	14,846	22.7%	14,100	95.0%	12,793	86.2%
	Nishigo	20,091	4,797	23.9%	4,637	96.7%	4,470	93.2%
	Izumizaki	6,931	1,315	19.0%	1,269	96.5%	1,215	92.4%
	Nakajima	5,306	964	18.2%	928	96.3%	881	91.4%
	Yabuki	18,343	4,017	21.9%	3,887	96.8%	3,741	93.1%
	Tanagura	15,383	2,935	19.1%	2,841	96.8%	2,727	92.9%
	Yamatsuri	6,489	1,434	22.1%	1,374	95.8%	1,332	92.9%
	Hanawa	10,062	2,259	22.5%	2,170	96.1%	1,966	87.0%
	Samegawa	4,196	795	18.9%	763	96.0%	743	93.5%
	Subtotal	152,229	33,362	21.9%	31,969	95.8%	29,868	89.5%
Aizu	Aizuwakamatsu	127,815	28,934	22.6%	27,322	94.4%	24,598	85.0%
	Kitakata	53,201	10,139	19.1%	9,326	92.0%	8,003	78.9%
	Kitashiobara	3,275	595	18.2%	563	94.6%	516	86.7%
	Nishiaizu	7,725	1,432	18.5%	1,327	92.7%	1,243	86.8%
	Bandai	3,888	752	19.3%	730	97.1%	679	90.3%
	Inawashiro	16,272	3,580	22.0%	3,410	95.3%	3,250	90.8%
	Aizubange	17,881	3,202	17.9%	3,025	94.5%	2,809	87.7%
	Yugawa	3,514	705	20.1%	670	95.0%	606	86.0%
	Yanaizu	4,077	710	17.4%	672	94.6%	626	88.2%
	Mishima	2,031	372	18.3%	336	90.3%	319	85.8%
	Kaneyama	2,544	619	24.3%	560	90.5%	547	88.4%
	Showa	1,569	344	21.9%	317	92.2%	313	91.0%
	Aizumisato	23,413	4,507	19.2%	4,284	95.1%	4,023	89.3%
	Subtotal	267,205	55,891	20.9%	52,542	94.0%	47,532	85.0%
Minami-aizu	Shimogo	6,650	1,215	18.3%	1,146	94.3%	1,072	88.2%
	Hinoemata	614	142	23.1%	130	91.5%	130	91.5%
	Tadami	5,030	1,083	21.5%	1,014	93.6%	951	87.8%
	Minami-aizu	18,493	3,729	20.2%	3,446	92.4%	2,846	76.3%
	Subtotal	30,787	6,169	20.0%	5,736	93.0%	4,999	81.0%
Soso	Soma	37,371	12,988	34.8%	12,444	95.8%	12,294	94.7%
	Minami-soma	70,012	29,822	42.6%	29,026	97.3%	28,760	96.4%
	Hirono	5,165	2,197	42.5%	2,115	96.3%	2,091	95.2%
	Naraha	7,963	4,137	52.0%	3,971	96.0%	3,940	95.2%
	Tomiooka	15,753	8,561	54.3%	8,357	97.6%	8,327	97.3%
	Kawauchi	2,996	1,519	50.7%	1,472	96.9%	1,463	96.3%
	Okuma	11,476	6,009	52.4%	5,768	96.0%	5,732	95.4%
	Futaba	7,051	3,915	55.5%	3,813	97.4%	3,803	97.1%
	Namie	21,333	12,868	60.3%	12,591	97.8%	12,571	97.7%
	Katsurao	1,541	811	52.6%	756	93.2%	750	92.5%
	Shinchi	8,357	2,652	31.7%	2,539	95.7%	2,509	94.6%
	Iitate	6,590	3,416	51.8%	3,304	96.7%	3,296	96.5%
	Subtotal	195,608	88,895	45.4%	86,156	96.9%	85,536	96.2%
Iwaki	Iwaki	348,226	86,983	25.0%	82,780	95.2%	80,014	92.0%
Total		2,055,383	553,418	26.9%	531,691	96.1%	512,194	92.6%

*Including Yamakiya of Kawamata, Namie and Iitate.

Estimated external radiation doses in the first four months (from 11 March through 11 July)

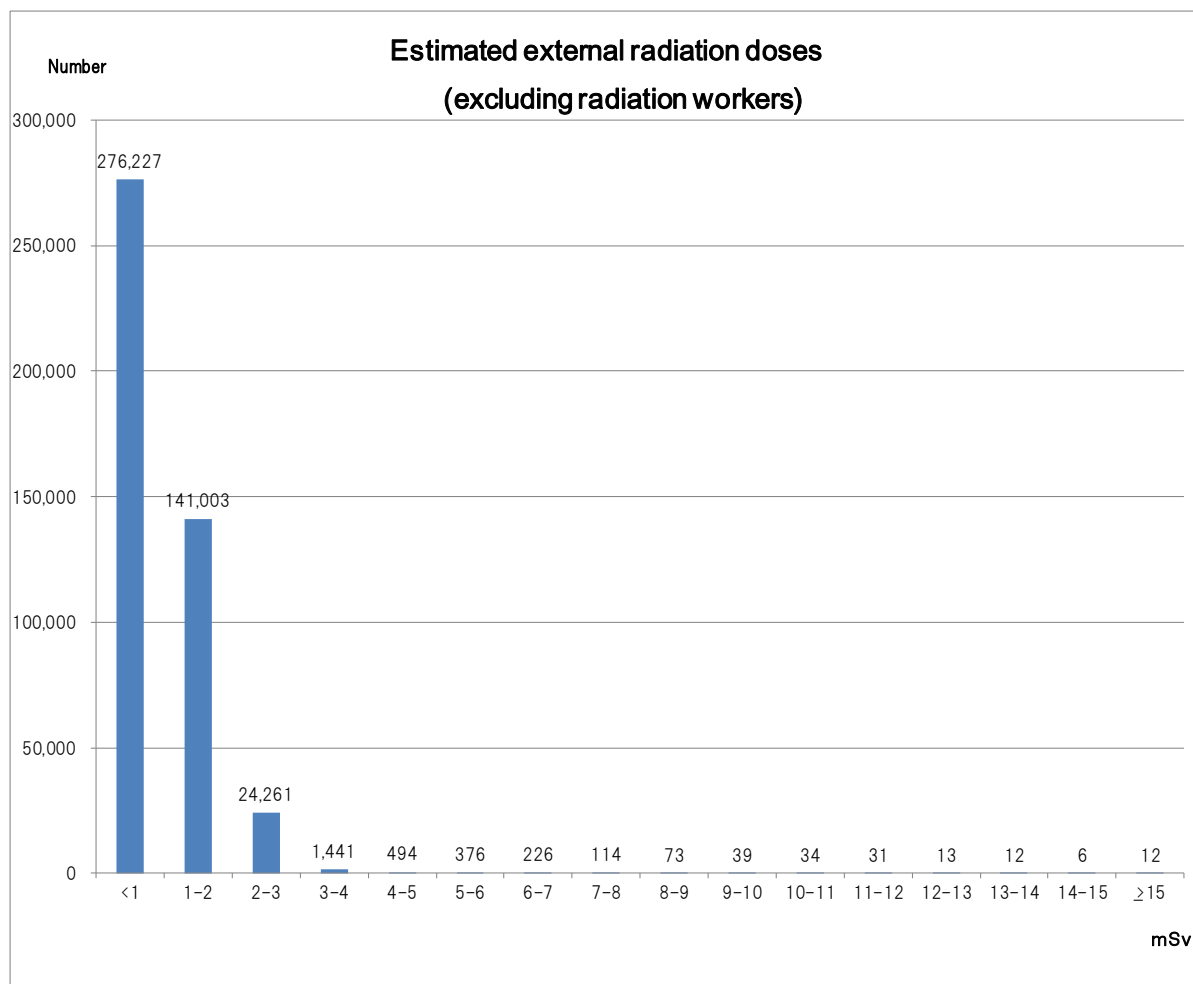
Preceding Survey and full-scale survey

As of 31 October 2014

Estimated external radiation doses by region

Effective Dose (mSv)	Total	Excluding radiation workers	By region							Proportion (%) excluding radiation workers		
			Kempoku	Kenchu	Kennan	Aizu	Minami-aizu	Soso	Iwaki			
<1	281,706	276,227	24,368	55,611	24,025	42,758	4,618	55,068	69,779	62.2	93.9	99.8
1-2	143,261	141,003	80,736	43,863	3,127	272	32	12,362	611	31.7		
2-3	24,618	24,261	14,810	7,751	15	21	0	1,637	27	5.5	5.8	
3-4	1,516	1,441	452	406	0	1	0	579	3	0.3		
4-5	536	494	39	5	0	0	0	449	1	0.1	0.2	
5-6	429	376	18	3	0	0	0	354	1	0.1		0.2
6-7	264	226	10	1	0	0	0	215	0	0.1	0.1	
7-8	151	114	1	0	0	0	0	113	0	0.0		
8-9	113	73	1	0	0	0	0	72	0	0.0	0.0	
9-10	69	39	0	0	0	0	0	39	0	0.0		
10-11	66	34	0	0	0	0	0	34	0	0.0	0.0	0.0
11-12	52	31	1	0	0	0	0	30	0	0.0		
12-13	35	13	0	0	0	0	0	13	0	0.0	0.0	
13-14	34	12	0	0	0	0	0	12	0	0.0		
14-15	27	6	0	0	0	0	0	6	0	0.0	0.0	
≥15	306	12	0	0	0	0	0	12	0	0.0	0.0	0.0
Total	453,183	444,362	120,436	107,640	27,167	43,052	4,650	70,995	70,422	100.0	100.0	100.0
Max	66	25	11	6.3	2.6	3.6	1.9	25	5.9			
Mean value	0.9	0.8	1.4	1.0	0.6	0.2	0.1	0.8	0.3			

Percentages have been rounded and may not total to 100%.



As of 31 October 2014

Estimated external radiation dose by age group (excluding radiation workers)

Effective Dose (mSv)	Age at the time of the disaster									Total
	0 - 9	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 -	
<1	45,801	41,874	20,221	32,386	27,318	31,588	35,063	25,019	16,957	276,227
1-2	21,680	20,362	9,569	17,339	16,091	18,133	18,966	11,986	6,877	141,003
2-3	5,975	3,962	1,057	2,203	2,137	2,867	3,299	1,935	826	24,261
3-4	239	156	78	150	144	227	221	159	67	1,441
4-5	19	45	36	40	76	90	77	72	39	494
5-6	13	14	27	33	43	83	73	63	27	376
6-7	4	5	11	21	25	44	51	44	21	226
7-8	3	6	7	8	13	34	22	14	7	114
8-9	2	4	3	8	7	15	14	10	10	73
9-10	0	1	1	2	4	12	11	5	3	39
10-11	1	1	1	2	5	11	4	6	3	34
11-12	0	0	1	3	0	6	8	11	2	31
12-13	0	0	0	0	1	6	4	1	1	13
13-14	0	0	1	1	1	4	3	2	0	12
14-15	0	0	0	0	0	3	3	0	0	6
≥15	0	0	0	0	2	2	5	1	2	12
Total	73,737	66,430	31,013	52,196	45,867	53,125	57,824	39,328	24,842	444,362

Estimated external radiation doses by sex in the first four months (excluding radiation workers)

Effective Dose (mSv)	By sex				Total	Proportion (%)
	Male	Proportion (%)	Female	Proportion (%)		
<1	123,393	60.6	152,834	63.5	276,227	62.2
1-2	65,472	32.1	75,531	31.4	141,003	31.7
2-3	13,188	6.5	11,073	4.6	24,261	5.5
3-4	918	0.5	523	0.2	1,441	0.3
4-5	276	0.1	218	0.1	494	0.1
5-6	194	0.1	182	0.1	376	0.1
6-7	126	0.1	100	0.0	226	0.1
7-8	67	0.0	47	0.0	114	0.0
8-9	43	0.0	30	0.0	73	0.0
9-10	23	0.0	16	0.0	39	0.0
10-11	21	0.0	13	0.0	34	0.0
11-12	17	0.0	14	0.0	31	0.0
12-13	6	0.0	7	0.0	13	0.0
13-14	8	0.0	4	0.0	12	0.0
14-15	3	0.0	3	0.0	6	0.0
≥15	9	0.0	3	0.0	12	0.0
Total	203,764	100.0	240,598	100.0	444,362	100.0

Percentages have been rounded and may not total to 100%.

As of 31 October 2014

Estimated external radiation doses by region in the first four months (from 11 March through 11 July) excluding radiation workers

Area/region		Effective Doses (mSv)																Total
		<1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	≥15	
Kempoku	Fukushima	15,842	51,058	8,978	145	12	10	4	0	0	0	0	0	0	0	0	0	76,049
	Nihonmatsu	1,275	8,100	3,258	86	1	0	0	0	0	0	0	0	0	0	0	0	12,720
	Date	4,300	8,825	1,113	145	8	2	3	1	1	0	0	0	0	0	0	0	14,398
	Motomiya	705	4,963	1,077	20	1	0	0	0	0	0	0	0	0	0	0	0	6,766
	Kori	311	2,720	66	2	0	1	0	0	0	0	0	0	0	0	0	0	3,100
	Kunimi	935	1,390	12	0	0	0	0	0	0	0	0	0	0	0	0	0	2,337
	Kawamata	621	2,664	178	52	17	5	3	0	0	0	0	1	0	0	0	0	3,541
	Otama	379	1,016	128	2	0	0	0	0	0	0	0	0	0	0	0	0	1,525
Kempoku Subtotal		24,368	80,736	14,810	452	39	18	10	1	1	0	0	1	0	0	0	0	120,436
Kenchu	Koriyama	22,967	38,566	7,332	396	5	3	1	0	0	0	0	0	0	0	0	0	69,270
	Sukagawa	10,240	3,051	315	4	0	0	0	0	0	0	0	0	0	0	0	0	13,610
	Tamura	7,122	651	22	3	0	0	0	0	0	0	0	0	0	0	0	0	7,798
	Kagamiishi	2,286	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,357
	Tenei	366	543	52	1	0	0	0	0	0	0	0	0	0	0	0	0	962
	Ishikawa	3,089	38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3,128
	Tamakawa	1,142	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1,162
	Hirata	1,256	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,290
	Asakawa	1,172	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,187
	Furudono	1,032	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1,048
	Miharu	3,006	782	22	2	0	0	0	0	0	0	0	0	0	0	0	0	3,812
	Ono	1,933	81	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2,016
Kenchu Subtotal		55,611	43,863	7,751	406	5	3	1	0	0	0	0	0	0	0	0	0	107,640
Kennan	Shirakawa	10,937	1,107	7	0	0	0	0	0	0	0	0	0	0	0	0	0	12,051
	Nishigo	2,136	1,844	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3,982
	Izumizaki	1,033	19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1,053
	Nakajima	776	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	788
	Yabuki	3,253	78	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3,332
	Tanagura	2,406	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,437
	Yamatsuri	1,098	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,107
	Hanawa	1,764	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,785
	Samegawa	622	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	632
Kennan Subtotal		24,025	3,127	15	0	0	0	0	0	0	0	0	0	0	0	0	0	27,167
Aizu	Aizuwakamatsu	22,373	144	11	0	0	0	0	0	0	0	0	0	0	0	0	0	22,528
	Kitakata	7,622	46	1	1	0	0	0	0	0	0	0	0	0	0	0	0	7,670
	Kitashiobara	455	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	458
	Nishiaizu	990	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	992
	Bandai	615	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	625
	Inawashiro	2,741	27	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,771
	Aizubange	2,527	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,540
	Yugawa	570	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	574
	Yanaizu	529	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	533
	Mishima	243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	243
	Kaneyama	393	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	395
	Showa	235	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	236
	Aizumisato	3,465	19	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3,487
Aizu Subtotal		42,758	272	21	1	0	0	0	0	0	0	0	0	0	0	0	0	43,052
Minami-aizu	Shimogo	917	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	922
	Hinoemata	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
	Tadami	809	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	813
	Minami-aizu	2,792	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,815
Minami-aizu Subtotal		4,618	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,650
Soso	Soma	9,702	439	86	20	5	0	0	0	0	2	0	0	0	0	0	0	10,254
	Minami-soma	18,826	6,096	502	96	35	3	6	4	1	0	0	1	0	0	0	0	25,570
	Hirono	1,818	54	2	0	0	0	1	0	1	0	0	0	0	0	0	0	1,876
	Naraha	3,351	127	13	2	0	1	1	0	0	0	0	0	0	0	0	0	3,495
	Tomioka	5,785	1,098	98	18	3	2	0	3	2	0	0	1	0	0	0	0	7,010
	Kawauchi	954	345	16	1	0	1	1	1	0	0	0	0	0	0	0	0	1,319
	Okuma	3,318	1,263	109	17	6	4	4	3	0	2	2	1	0	4	0	1	4,734
	Futaba	2,653	464	72	18	6	4	3	6	2	1	0	2	0	0	0	1	3,232
	Namie	5,863	1,972	355	64	37	17	15	12	9	5	11	8	5	4	3	6	8,386
	Katsurao	495	161	24	4	0	1	0	0	0	0	0	0	0	0	0	0	685
	Shinchi	2,107	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,127
	Iitate	196	323	360	339	357	321	184	84	57	29	21	17	8	4	3	4	2,307
Soso Subtotal		55,068	12,362	1,637	579	449	354	215	113	72	39	34	30	13	12	6	12	70,995
Iwaki	Iwaki	69,779	611	27	3	1	1	0	0	0	0	0	0	0	0	0	0	70,422
Total		276,227	141,003	24,261	1,443	494	376	226	114	73	39	34	31	13	12	6	12	444,362
Proportion (%)		62.2	31.7	5.5	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
		93.9		5.8		0.2		0.1		0.0		0.0		0.0		0.0		100.0
		99.8				0.2				0.0				0.0				100.0
Visitors		1,321	264	18	2	0	0	0	0	0	0	0	0	0	0	0	0	1,605
Total+Visitors		277,548	141,267	24,279	1,443	494	376	226	114	73	39	34	31	13	12	6	12	445,967

Percentages have been rounded and may not total to 100%.

Interim Report of Thyroid Ultrasound Examination (Initial Screening)

Reported on 25 December 2014

Revised on 17 February and 5 June 2015

1. Summary

1.1 Purpose

One of the health problems caused by the Chernobyl nuclear power plant accident was thyroid cancer in childhood caused by internal exposure to radioactive iodine.

In response to the Tokyo Electric Power Company's (TEPCO's) Fukushima Daiichi nuclear accident, Fukushima Prefecture started a Thyroid Ultrasound Examination program to protect the health of children over their lifetimes.

Initial Screening aims to check the baseline condition of participants' thyroid glands.

1.2 Group

Residents of Fukushima Prefecture, including visitors, as of 11 March 2011, aged 0-18 years (born between 2 April 1992 and 1 April 2011).

1.3 Implementation Period

The Initial Screening started from 9 October 2011 and was planned to end on 31 March 2014, but we continued these examinations until notice of the Full-scale Thyroid Screening program was sent to residents. The data tabulation period lasted to 31 October 2014.

We continue to conduct confirmatory testing on the basis of the primary test results.

1.4 Responsible Organizations

Fukushima Prefecture commissioned Fukushima Medical University to conduct the survey in cooperation with institutions inside and outside Fukushima Prefecture.

We started the primary examination from 1 November 2012 outside Fukushima, and 92 institutions have agreed to cooperate as of 31 October 2014.

The confirmatory examination has been conducted in Koriyama and Iwaki in Fukushima Prefecture from July 2013, Aizuwakamatsu from August 2014, and several institutions outside Fukushima Prefecture from November 2013. As of 31 October 2014, 25 institutions conduct the examination.

1.5 Method

1.5-1 Primary Examination

We used ultrasonography for examination of the thyroid gland.

Assessments were made by specialists on the basis of the following criteria.

-Diagnostic Criteria: A

Those with A1 and A2 test results were advised to take the next examination starting from April 2014.

(A1) No nodules / cysts

(A2) Nodules $\leq 5.0\text{mm}$ or cysts $\leq 20.0\text{mm}$

-Diagnostic Criteria: B

Those with B test result are advised to take the Confirmatory Examination.

(B) Nodules $\geq 5.1\text{mm}$ or cysts $\geq 20.1\text{mm}$

Some A2 test results may be classified as B results when clinically indicated.

-Diagnostic Criteria: C

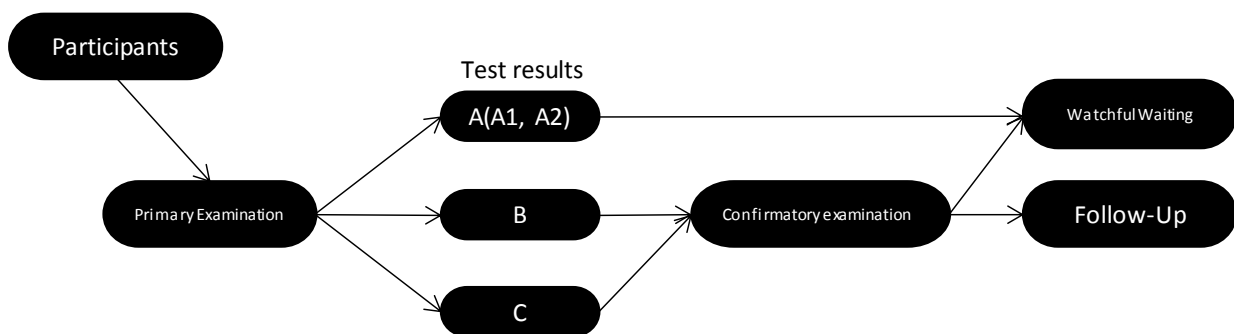
Those with C test result are advised to take the Confirmatory Examination.

(C) Immediate need for confirmatory examination.

1.5-2 Confirmatory Examination

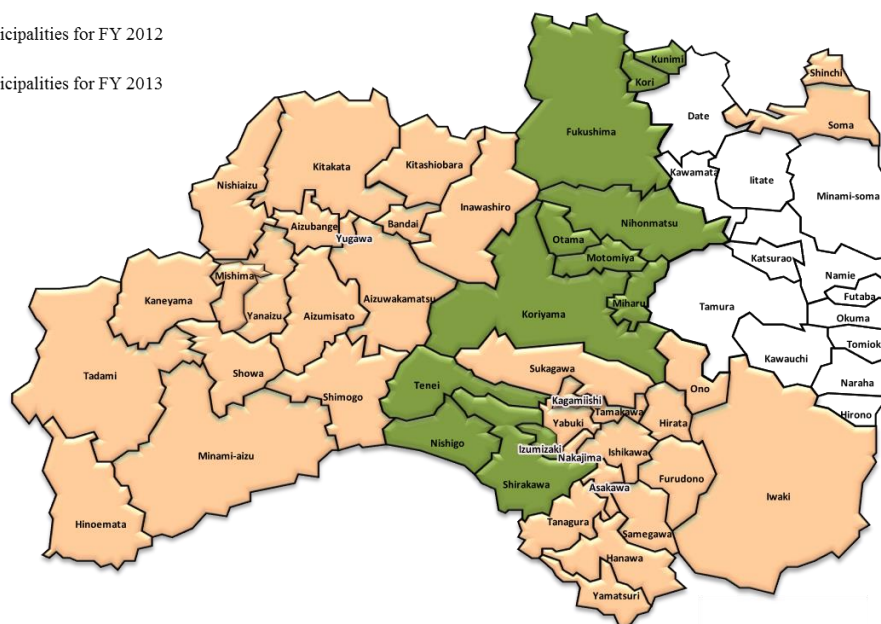
We conduct fine-needle aspiration cytology (FNAC), blood test, and urine test for those with B or C test results.

1.5-3 Flow chart



1.6 Target Municipalities

- 13 target municipalities for FY 2011
- 12 target municipalities for FY 2012
- 34 target municipalities for FY 2013



2.1 Results (As of 31 October 2014)

2.1-1 Primary Examination

The participation rate as of 31 October 2014 is 80.7% (296,586/367,686). See Appendix 2 and 3.

The results have been returned to 99.9% of the 296,253 participants (Appendix 4 and 5).

Those with A1 or A2 test results were 294,012 (99.2%), B were 2,240 (0.8%), and C were 1.

Table 1. Screening test coverage as of 31 October 2014

	Target Population a	Participants		Proportion (%) c (c/b)	Test results			
		Proportion (%) b (b/a)	Screened outside Fukushima		Class			
					A		Requiring confirmatory test	
					A1 d (d/c)	A2 e (e/c)	B f (f/c)	C g (g/c)
FY 2011	47,768	41,810 (87.5)	2,025	41,810 (100.0)	26,373 (63.1)	15,216 (36.4)	221 (0.5)	0 (0.0)
FY 2012	161,137	139,341 (86.5)	4,266	139,269 (99.9)	76,160 (54.7)	62,121 (44.6)	987 (0.7)	1 (0.0)
FY 2013	158,781	115,435 (72.7)	3,070	115,174 (99.8)	50,100 (43.5)	64,042 (55.6)	1,032 (0.9)	0 (0.0)
Total	367,686	296,586 (80.7)	9,361	296,253 (99.9)	152,633 (51.5)	141,379 (47.7)	2,240 (0.8)	1 (0.0)

Table 2. Number and proportion of children with nodules/cysts as of 31 October 2014

	Number of confirmed screening results a	Number and proportions of children with nodules/cysts			
		Nodules		Cysts	
		≥5.1mm b (b/a)	≤5.0mm c (c/a)	≥20.1mm d (d/a)	≤20.0mm e (e/a)
FY 2011	41,810	219 (0.5)	232 (0.6)	1 (0.0)	15,140 (36.2)
FY 2012	139,269	973 (0.7)	730 (0.5)	9 (0.0)	62,234 (44.7)
FY 2013	115,174	1,030 (0.9)	712 (0.6)	2 (0.0)	64,330 (55.9)
Total	296,253	2,222 (0.8)	1,674 (0.6)	12 (0.0)	141,704 (47.8)

Fractions have been rounded and may not total to 100%.

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

2.1-2 Confirmatory Examination

The number of participants with B or C test results who required further testing is 2,241, of whom 2,051 (91.5%) underwent the confirmatory testing. Among them, 1,985 (96.8%) have completed the tests (Appendix 6).

Of 1,985 children, 673 (33.9%), specifically 116 with A1 and 557 with A2 results (Table 3), were recommended for watchful waiting.

Of 1, 312 (66.1%) needed 6 to 12 months follow-up provided by health insurance, 519 (39.6%) underwent FNAC.

Table 3. Confirmatory testing coverage and results as of 31 October 2014

	Number of children requiring confirmatory test a	Participants Proportion (%) b (b/a)	Confirmatory test coverage (%) c (c/b)	Confirmed test results			
				Next screening advised		Follow-up advised	
				A1 d (d/c)	A2 e (e/c)	f (f/c)	Cytology g (g/f)
FY 2011	221	198 (89.6)	197 (99.5)	12 (6.1)	44 (22.3)	141 (71.6)	91 (64.5)
FY 2012	988	917 (92.8)	892 (97.3)	53 (5.9)	245 (27.5)	594 (66.6)	261 (43.9)
FY 2013	1,032	936 (90.7)	896 (95.7)	51 (5.7)	268 (29.9)	577 (64.4)	167 (28.9)
Total	2,241	2,051 (91.5)	1,985 (96.8)	116 (5.8)	557 (28.1)	1,312 (66.1)	519 (39.6)

Priority was given to those in urgent clinical need.

Those confirmed within the range of A1 and A2 (including those with other thyroid conditions) were advised to take their next regularly scheduled examination.

Those who require 6- or 12-month follow-up provided by health insurance and those beyond the specified level of A2 were categorized as “Follow-up advised”.

2.2 Fine Needle Aspiration Biopsy and Cytology (FNAC)

2.2-1 Aspiration biopsy cytology results as of 31 October 2014

Those who were not diagnosed as suspicious or malignant were recommended for 6- to 12-months follow-up.

Target municipalities in FY 2011

Suspicious or malignant	15 (15 surgical cases: 1 of benign thyroid nodules; 13 of papillary thyroid carcinoma; 1 poorly differentiated thyroid carcinoma)
Male to female ratio	5:10
Mean age (SD, min-max)	17.3 (2.0, 13-20) 15.7 (1.9, 11-18) at the time of the disaster
Mean tumor size	14.1 mm (6.6 mm, 6.0-33.0 mm)

Target municipalities in FY 2012

Suspicious or malignant	56 (50 surgical cases: 49 of papillary thyroid carcinoma ; 1 poorly differentiated thyroid carcinoma)
Male to female ratio	21:35
Mean age (SD, min-max)	17.2 (2.7, 8-21) 14.9 (2.6, 6-18) at the time of the disaster
Mean tumor size	14.5 mm (7.8 mm, 5.2-40.5 mm)

Target municipalities in FY 2013

Suspicious or malignant	38 (20 surgical cases: 19 of papillary thyroid carcinoma; 1 poorly differentiated thyroid carcinoma)
Male to female ratio	12:26
Mean age (SD, min-max)	17.2 (3.0, 11-21) 14.4 (2.8, 8-18 at the time of the disaster)
Mean tumor size	13.4 mm (7.0 mm, 5.1-35.9 mm)

Total for cases FY 2011 – FY 2013

Suspicious or malignant	109 (85 surgical cases: 1 of benign thyroid nodules; 81 of papillary thyroid carcinoma; 3 poorly differentiated thyroid carcinoma)
Male to female ratio	38:71
Mean age(SD, min-max)	17.2 (2.7, 8-21) 14.8 (2.6, 6-18) at the time of the disaster
Mean tumor size	14.1 mm (7.3 mm, 5.1-40.5 mm)

2.2-2 Suspicious or malignant cases on FNAC by age and sex

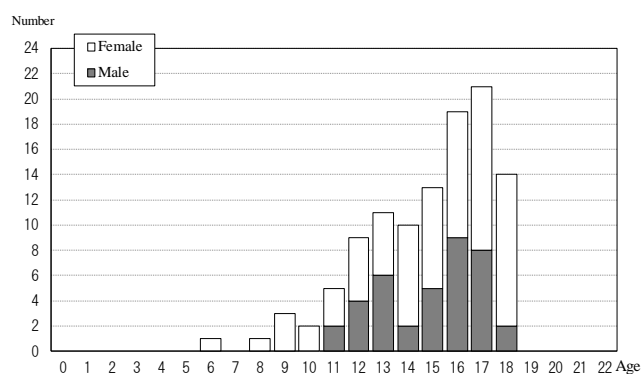


Fig.3 Age as of 11 March 2011

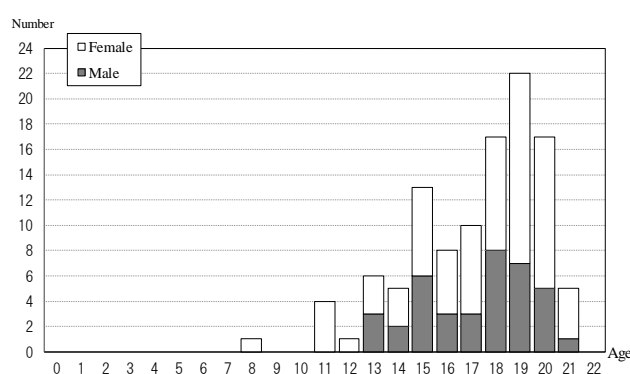


Fig. 4 Age as the date of confirmatory examination

2.2-3 Suspicious or malignant cases on FNAC by estimated radiation dose

Sixty-two of the 109 cases (56.9%) participated in the Basic Survey (radiation dose estimates) and 58 of them, including 5 with less than four months' data, have received the results. Among those, 40 (69.0%) had estimated radiation exposure dose below 1 mSv, and the highest effective dose was 2.2 mSv.

Table 5. Number of suspicious or malignant cases by age and sex As of 31 October 2014

Effective dose (mSv)	Sex	Age at the time of disaster				
		0-5	6-10	11-15	16-18	Total
<0.5	Male	0	0	2	4(1)	6(1)
	Female	0	4(1)	6	10(2)	20(3)
0.5-1.0	Male	0	0	4(1)	2	6(1)
	Female	0	1	1	6	8
1.0-1.5	Male	0	0	2	2	4
	Female	0	0	5	1	6
1.5-2.0	Male	0	0	1	0	1
	Female	0	0	4	2	6
2.0-2.5	Male	0	0	1	0	1
	Female	0	0	0	0	0
Total	Male	0	0	10(1)	8(1)	18(2)
	Female	0	5(1)	16	19(2)	40(3)

Numbers inside the brackets are estimates for participants with less than four months' data.

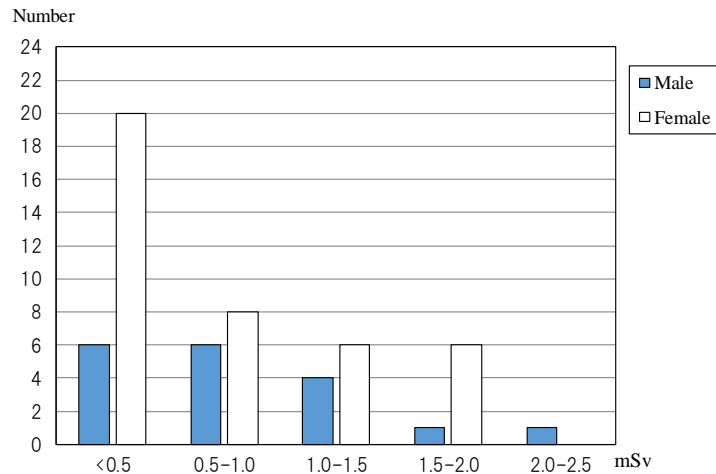


Fig. 5 Effective dose of the respondents

2.2-4 Blood and urinary iodine test results as of 31 October 2014

Table 6. Blood test results Mean \pm SD (Abnormality ratio)

	FT4 1) (ng/dL)	FT3 2) (pg/mL)	TSH 3) (μ IU/mL)	Tg 4) (ng/mL)	TgAb 5) (IU/mL)	TPOAb 6) (IU/mL)
Reference Range	0.95-1.74	2.13-4.07 7)	0.340-3.880	≤ 32.7	<28.0	<16.0
109 suspicious or malignant	1.2 \pm 0.2 (6.4%)	3.4 \pm 0.4 (5.5%)	1.3 \pm 0.7 (5.5%)	38.2 \pm 78.1 (34.9%)	— (27.5%)	— (15.6%)
Other 1,874	1.3 \pm 0.3 (7.3%)	3.6 \pm 0.9 (6.1%)	1.8 \pm 12.3 (8.4%)	33.8 \pm 183.7 (17.7%)	— (13.2%)	— (9.6%)

Table 7. Urinary iodine (μ g/day)

	Minimum	25th percentile	Median	75th percentile	Maximum
109 suspicious or malignant	42	134	226	368.5	6,020
Other 1,871	24	120	196	368	35,700

- 1) FT4: Free Thyroxine; higher among patients with Graves' disease and lower with Hashimoto's disease.
- 2) FT3: Free Triiodothyronine; higher among patients with Graves' disease and lower with Hashimoto's disease.
- 3) TSH: Thyroid Stimulating Hormone; higher among patients with Hashimoto's disease and lower with Graves' disease.
- 4) Tg: Thyroglobulin; higher when thyroid tissue is destroyed or when thyroid cancer produces thyroglobulin.
- 5) TgAb: Anti-Thyroglobulin Antibody; higher among patients with Hashimoto's disease and Graves' disease.
- 6) TPOAb: Anti-Thyroid Peroxidase Antibody; higher among patients with Hashimoto's disease or Graves' disease.
- 7) Reference range differs according to age.

2.2-5 Confirmatory test results by municipality as of 31 October 2014

The proportion of suspicious or malignant is 0.03% in FY 2011 target municipalities (13 municipalities in the nationally designated evacuation zones), 0.04% in FY 2012 target municipalities (12 towns of the Kenchu area), and 0.03% in FY 2013 target municipalities (34 towns of the Iwaki, Kennan, and Aizu areas).

Table 8.

Confirmatory test results in FY 2011

(13 municipalities in the nationally designated evacuation zones)

	Number of children screened	Number who required confirmatory test	Proportion who required confirmatory test (%)	Number who underwent confirmatory test	Suspicious or malignant cases ¹	Proportion of suspicious or malignant cases (%)
Kawamata	2,221	8	0.4	8	2	0.09
Namie	3,249	26	0.8	23	2	0.06
Iitate	943	6	0.6	6	0	0.00
Minami-soma	10,789	52	0.5	48	2	0.02
Date	10,605	50	0.5	45	2	0.02
Tamura	6,325	32	0.5	26	3	0.05
Hirono	838	5	0.6	4	0	0.00
Naraha	1,153	7	0.6	6	0	0.00
Tomioka	2,302	13	0.6	12	1	0.04
Kawauchi	280	4	1.4	4	1	0.36
Okuma	1,973	14	0.7	13	1	0.05
Futaba	949	3	0.3	2	0	0.00
Katsurao	183	1	0.5	1	0	0.00
Subtotal	41,810	221	0.5	198	14	0.03

1) Excluding one suspected case found benign by aspiration biopsy cytology.

Confirmatory test results by municipality in FY 2012

	Number of children screened	Number who required confirmatory test	Proportion who required confirmatory test (%)	Number who underwent confirmatory test	Suspicious or malignant cases	Proportion of suspicious or malignant cases (%)
Fukushima	47,309	283	0.6	271	12	0.03
Nihonmatsu	8,857	57	0.6	54	5	0.06
Motomiya	5,234	29	0.6	29	3	0.06
Otama	1,373	7	0.5	7	2	0.15
Koriyama	54,063	458	0.8	413	25	0.05
Kori	1,874	14	0.7	13	0	0.00
Kunimi	1,437	15	1.0	13	0	0.00
Tenei	878	7	0.8	6	0	0.00
Shirakawa	10,811	61	0.6	59	6	0.06
Nishigo	3,618	30	0.8	26	1	0.03
Izumizaki	1,157	5	0.4	5	1	0.09
Miharu	2,730	22	0.8	21	1	0.04
Subtotal	139,341	988	0.7	917	56	0.04

Confirmatory test results by municipality in FY 2013

	Number of children screened	Number who required confirmatory test	Proportion who required confirmatory test (%)	Number who underwent confirmatory test	Suspicious or malignant cases	Proportion of suspicious or malignant cases (%)
Iwaki*	47,918	429	0.9	394	21	0.04
Sukagawa	11,591	101	0.9	96	4	0.03
Soma	5,085	46	0.9	42	0	0.00
Kagamiishi	1,952	9	0.5	8	0	0.00
Shinchi	1,110	7	0.6	7	0	0.00
Nakajima	801	2	0.2	2	0	0.00
Yabuki	2,462	17	0.7	13	0	0.00
Ishikawa	2,086	11	0.5	10	1	0.05
Yamatsuri	776	3	0.4	2	0	0.00
Asakawa	1,070	12	1.1	10	0	0.00
Hirata	829	9	1.1	9	1	0.12
Tanagura	2,259	22	1.0	22	1	0.04
Hanawa	1,218	8	0.7	7	0	0.00
Samegawa	507	3	0.6	1	0	0.00
Ono	1,327	14	1.1	13	0	0.00
Tamakawa	986	10	1.0	8	0	0.00
Furudono	792	6	0.8	6	0	0.00
Hinoemata	61	0	0.0	0	0	0.00
Minami-aizu	1,809	16	0.9	15	0	0.00
Kaneyama	137	0	0.0	0	0	0.00
Showa	101	0	0.0	0	0	0.00
Mishima	129	1	0.8	1	0	0.00
Shimogo	691	10	1.4	9	1	0.14
Kitakata	5,727	46	0.8	40	0	0.00
Nishiaizu	638	5	0.8	4	0	0.00
Tadami	494	7	1.4	6	0	0.00
Inawashiro	1,881	13	0.7	12	1	0.05
Bandai	414	4	1.0	3	0	0.00
Kitashiobara	385	1	0.3	1	0	0.00
Aizumisato	2,551	26	1.0	23	0	0.00
Aizubange	2,080	25	1.2	23	1	0.05
Yanaizu	375	2	0.5	2	0	0.00
Aizuwakamatsu	14,685	160	1.1	140	6	0.04
Yugawa	508	7	1.4	7	1	0.20
Subtotal	115,435	1,032	0.9	936	38	0.03

Total	296,586	2,241	0.8	2,051	108	0.04
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* Including districts of FY 2012

3. Primary and confirmatory test results by municipality (Interim report)

In order to compare the results by municipality, we divided the area into three regions, Hamadori, Nakadori, and Aizu. Hamadori and Nakadori are divided into 13 municipalities in the nationally designated evacuation zones and otherwise.

The below is the interim report since the results of the Confirmatory Examination in Aizu area are not fully available yet.

Table 9. Proportion of B or C test results, and suspicious or malignant (Interim report) As of 31 October 2014

		13 municipalities ¹⁴	Nakadori ¹⁵	Hamadori ¹⁶	Aizu ¹⁷	Total
Target population		47,768	199,456	70,535	49,927	367,686
Number of participants of Primary Examination	A ¹⁰	41,810	167,825	54,006	32,612	296,253
Mean age (SD) Total		10.4 (5.3)	10.7 (5.1)	11.1 (4.9)	11.1 (4.5)	-
Mean age (SD) Female		10.4 (5.3)	10.8 (5.2)	11.3 (5.0)	11.3 (4.6)	-
Mean age (SD) Male		10.3 (5.2)	10.5 (5.1)	10.9 (4.9)	10.9 (4.4)	-
Female (%)	%	49.6	49.3	50.0	49.7	49.5
B or C test results	B	221	1,215	482	323	2,241
Proportion of B or C test results	(B/A)	%	0.53	0.72	0.89	0.76
Number of participants of Confirmatory Examination	C ¹¹	197	1,090	427	271	1,985
Proportion of participants	(C/B)	%	89.1	89.7	88.6	88.6
Participants of FNAC	D ¹²	94	293	93	45	525
Proportion of participants of Confirmatory Examination	(D/C)	%	47.7	26.9	21.8	26.4
Proportion of participants of Primary Examination	(D/A)	%	0.22	0.17	0.17	0.18
Number of suspicious or malignant	E ¹³	14	63	21	10	108
Proportion	(E/D)	%	14.9	21.5	22.6	20.6
Proportion per 100,000	(E/A)		33.5	37.5	38.9	36.5
	%	(0.033)	(0.038)	(0.039)	(0.031)	(0.036)

10) Excluding duplicates and unconfirmed results.

11) Excluding number of unconfirmed test results.

12) Number of those who underwent FNAC including A1 and A2 test results among participants of Confirmatory Examination.

13) Excluding one suspected case found benign by aspiration biopsy cytology.

14) Tamura, Minami-soma, Date, Kawamata, Hirono, Naraha, Tomioka, Kawauchi, Okuma, Futaba, Namie, Katsurao, Iitate

15) Fukushima, Koriyama, Shirakawa, Sukagawa, Nihonmatsu, Motomiya, Kori, Kunimi, Otama, Kagamiishi, Tenei, Nishigo, Izumizaki, Nakajima, Yabuki, Tanagura, Yamatsuri, Hanawa, Samegawa, Ishikawa, Tamakawa, Hirata, Asakawa, Furudono, Mihar, Ono

16) Iwaki, Soma, Shinchi

17) Aizuwakamatsu, Kitakata, Shimogo, Hinoemata, Tadami, Minami-aizu, Kitashiobara, Nishiaizu, Bandai, Inawashiro, Aizubange, Yugawa, Yanaizu, Mishima, Kaneyama, Showa, Aizumisato

Summary

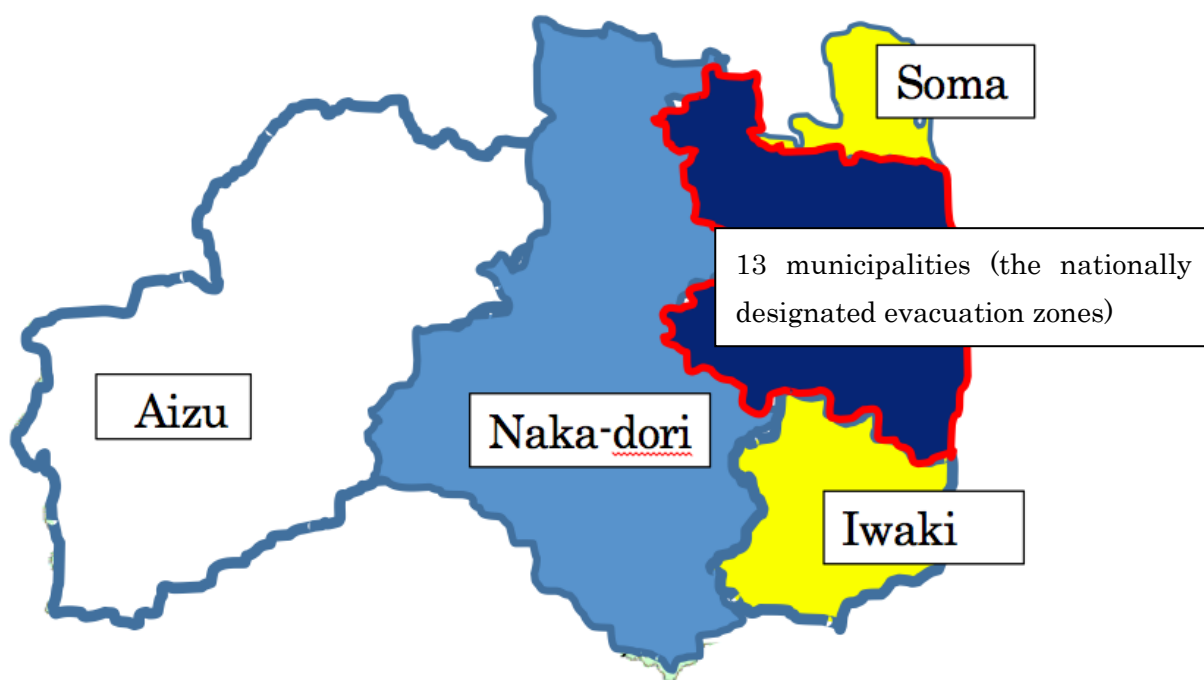
Among the 296,253 participants of Primary Examination excluding duplicates and unconfirmed test results, proportion of B or C test results increased in all areas, and was highest in Aizu followed by Hamadori, Nakadori, and 13 municipalities of the nationally designated evacuation zones.

The proportion of suspicious or malignant was almost the same among 13 municipalities in the nationally designated evacuation zones, Nakadori, and Hamadori, but lower in Aizu since the proportion of those completed the Confirmatory Examination is lower.

FY 2011 is from 1 April 2011 through 31 March 2012.

FY 2012 is from 1 April 2012 through 31 March 2013.

FY 2013 is from 1 April 2013 through 31 March 2014.



Appendix 1

Participants by municipality

As of 31 October 2014

		As of 31 October 2014			
		Age			
Target Population		0-5	6-10	11-15	16-18
FY 2011					
Kawamata	2,394	588	631	719	456
Namie	3,643	1,023	920	1,031	669
Itate	1,084	281	300	301	202
Minami-soma	12,526	3,697	3,418	3,297	2,114
Date	11,400	2,755	3,023	3,401	2,221
Tamura	7,068	1,738	1,807	2,073	1,450
Hirono	1,077	258	250	348	221
Naraha	1,432	351	362	415	304
Tomioka	2,962	767	740	897	558
Kawauchi	357	90	99	89	79
Okuma	2,385	782	634	619	350
Futaba	1,207	369	300	337	201
Katsurao	233	56	62	67	48
Subtotal	47,768	12,755	12,546	13,594	8,873
FY 2012					
Fukushima	53,555	15,250	14,062	14,880	9,363
Nihonmatsu	10,256	2,784	2,646	2,945	1,881
Motomiya	6,112	1,760	1,583	1,691	1,078
Otama	1,617	486	399	430	302
Koriyama	64,383	19,216	16,911	17,497	10,759
Kori	2,065	526	547	595	397
Kunimi	1,594	381	420	484	309
Tenei	1,061	300	284	280	197
Shirakawa	12,161	3,357	3,258	3,478	2,068
Nishigo	3,977	1,143	1,081	1,075	678
Izumizaki	1,289	353	355	335	246
Miharu	3,067	750	776	931	610
Subtotal	161,137	46,306	42,322	44,621	27,888
FY 2013					
Iwaki*	62,289	17,231	16,181	17,755	11,122
Sukagawa	15,308	4,344	4,096	4,255	2,613
Soma	6,813	1,981	1,778	1,849	1,205
Kagamiishi	2,597	740	707	723	427
Shinchi	1,433	391	394	411	237
Nakajima	1,079	270	282	317	210
Yabuki	3,277	981	850	896	550
Ishikawa	2,848	711	722	831	584
Yamatsuri	1,010	287	236	315	172
Asakawa	1,340	340	379	372	249
Hirata	1,208	329	298	342	239
Tanagura	2,988	867	744	882	495
Hanawa	1,662	415	391	531	325
Samegawa	694	178	172	186	158
Ono	1,936	496	490	568	382
Tamakawa	1,332	384	347	369	232
Furudono	1,040	287	242	315	196
Hinoemata	107	23	30	34	20
Minami-aizu	2,823	713	682	841	587
Kaneyama	203	40	52	72	39
Showa	128	44	38	33	13
Mishima	192	43	55	53	41
Shinogo	1,007	265	252	293	197
Kitakata	8,910	2,293	2,334	2,578	1,705
Nishiaizu	1,019	216	245	334	224
Tadami	710	195	177	201	137
Inawashiro	2,662	704	659	768	531
Bandai	617	180	163	166	108
Kitashiobara	557	159	140	156	102
Aizumisato	3,658	916	909	1,098	735
Aizubange	3,081	766	800	958	557
Yanaizu	590	158	142	175	115
Aizuwakamatsu	22,987	6,261	5,965	6,578	4,183
Yugawa	676	179	177	192	128
Subtotal	158,781	43,387	41,129	45,447	28,818
FY 2014					
Total	367,686	102,448	95,997	103,662	65,579

* Including districts of FY 2012

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

Appendix 2

Thyroid Ultrasound Examination (TUE) coverage by municipality

Screening coverage by municipality in FY 2011 (13 municipalities in the nationally designated zones)

As of 31 October 2014

	Target Population a	Participants		Proportion (%) b/a	Number and proportion of participants by age group				Participants living outside Fukushima c 4)	Proportion (%) c/b
		b	Screened outside Fukushima 5)		0-5	6-10	11-15	16-18		
Kawamata	2,394	2,221	34	92.8	560	612	687	362	123	5.5
					95.2	97.0	95.5	79.4		
					25.2	27.6	30.9	16.3		
Nemie	3,643	3,249	192	89.2	920	858	918	553	1,189	36.6
					89.9	93.3	89.0	82.7		
					28.3	26.4	28.3	17.0		
Iitate	1,084	943	16	87.0	248	271	264	160	88	9.3
					88.3	90.3	87.7	79.2		
					26.3	28.7	28.0	17.0		
Minami-soma	12,526	10,789	875	86.1	3,205	3,052	2,929	1,603	2,876	26.7
					86.7	89.3	88.8	75.8		
					29.7	28.3	27.1	14.9		
Date	11,400	10,605	155	93.0	2,573	2,977	3,287	1,768	575	5.4
					93.4	98.5	96.6	79.6		
					24.3	28.1	31.0	16.7		
Tamura	7,068	6,325	61	89.5	1,557	1,762	1,969	1,037	216	3.4
					89.6	97.5	95.0	71.5		
					24.6	27.9	31.1	16.4		
Hirono	1,077	838	57	77.8	204	216	294	124	151	18.0
					79.1	86.4	84.5	56.1		
					24.3	25.8	35.1	14.8		
Naraha	1,432	1,153	77	80.5	285	319	353	196	225	19.5
					81.2	88.1	85.1	64.5		
					24.7	27.7	30.6	17.0		
Tomioka	2,962	2,302	237	77.7	594	638	720	350	631	27.4
					77.4	86.2	80.3	62.7		
					25.8	27.7	31.3	15.2		
Kawauchi	357	280	22	78.4	72	92	70	46	53	18.9
					80.0	92.9	78.7	58.2		
					25.7	32.9	25.0	16.4		
Okuma	2,385	1,973	183	82.7	656	579	529	209	500	25.3
					83.9	91.3	85.5	59.7		
					33.2	29.3	26.8	10.6		
Futaba	1,207	949	113	78.6	289	246	277	137	424	44.7
					78.3	82.0	82.2	68.2		
					30.5	25.9	29.2	14.4		
Katsurao	233	183	3	78.5	43	55	57	28	15	8.2
					76.8	88.7	85.1	58.3		
					23.5	30.1	31.1	15.3		
Subtotal	47,768	41,810	2,025	87.5	11,206	11,677	12,354	6,573	7,066	16.9
					87.9	93.1	90.9	74.1		
					26.8	27.9	29.5	15.7		

1) Number of participants. 2) Number of participants/Number in the target population age group.

3) Number of participants in the age group/Number of participants.

4) Number of participants currently living outside Fukushima.

5) Number of participants who underwent the test outside Fukushima.

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

Fractions have been rounded and may not total to 100%. Ages are at the time of the disaster.

While some participants who underwent the test at their schools had been categorized according to the municipalities of their schools in the previous survey, they were categorized into the municipalities they belonged at the time of the disaster.

Screening coverage by municipality in FY 2012

As of 31 October 2014

	Target Population	Participants		Proportion (%)	Number and proportion of participants by age group				Participants living outside Fukushima	Proportion (%)	
		b	Screened outside Fukushima 5)		b/a						
						0-5	6-10	11-15			16-18
Fukushima	53,555	47,309	1,238	88.3	13,372	13,565	13,670	6,702	3,553	7.5	
					87.7	96.5	91.9	71.6			
					28.3	28.7	28.9	14.2			
Nihonmatsu	10,256	8,857	174	86.4	2,528	2,589	2,672	1,068	439	5.0	
					90.8	97.8	90.7	56.8			
					28.5	29.2	30.2	12.1			
Motomiya	6,112	5,234	110	85.6	1,534	1,554	1,506	640	228	4.4	
					87.2	98.2	89.1	59.4			
					29.3	29.7	28.8	12.2			
Otama	1,617	1,373	18	84.9	447	397	385	144	42	3.1	
					92.0	99.5	89.5	47.7			
					32.6	28.9	28.0	10.5			
Koriyama	64,383	54,063	2,217	84.0	16,317	16,148	15,492	6,106	3,795	7.0	
					84.9	95.5	88.5	56.8			
					30.2	29.9	28.7	11.3			
Kori	2,065	1,874	34	90.8	494	541	570	269	68	3.6	
					93.9	98.9	95.8	67.8			
					26.4	28.9	30.4	14.4			
Kunimi	1,594	1,437	29	90.2	349	412	464	212	53	3.7	
					91.6	98.1	95.9	68.6			
					24.3	28.7	32.3	14.8			
Tenei	1,061	878	13	82.8	285	281	229	83	31	3.5	
					95.0	98.9	81.8	42.1			
					32.5	32.0	26.1	9.5			
Shirakawa	12,161	10,811	296	88.9	3,083	3,193	3,242	1,293	599	5.5	
					91.8	98.0	93.2	62.5			
					28.5	29.5	30.0	12.0			
Nishigo	3,977	3,618	83	91.0	1,089	1,062	1,012	455	197	5.4	
					95.3	98.2	94.1	67.1			
					30.1	29.4	28.0	12.6			
Izumizaki	1,289	1,157	14	89.8	339	346	311	161	44	3.8	
					96.0	97.5	92.8	65.4			
					29.3	29.9	26.9	13.9			
Miharu	3,067	2,730	40	89.0	696	760	859	415	105	3.8	
					92.8	97.9	92.3	68.0			
					25.5	27.8	31.5	15.2			
Subtotal	161,137	139,341	4,266	86.5	40,533	40,848	40,412	17,548	9,154	6.6	
					87.5	96.5	90.6	62.9			
					29.1	29.3	29.0	12.6			

Screening coverage by municipality in FY 2013

	Target Population	Participants		Proportion (%)	Number and proportion of participants by age group			
		b	Screened outside Fukushima 5)		0-5	6-10	11-15	16-18
Iwaki*	62,289	47,918	1,617	76.9	13,825	15,450	13,864	4,779
					80.2	95.5	78.1	43.0
					28.9	32.2	28.9	10.0
Sukagawa	15,308	11,591	253	75.7	3,615	3,968	3,060	948
					83.2	96.9	71.9	36.3
					31.2	34.2	26.4	8.2
Soma	6,813	5,085	226	74.6	1,658	1,656	1,324	447
					83.7	93.1	71.6	37.1
					32.6	32.6	26.0	8.8
Kagamiishi	2,597	1,952	33	75.2	611	684	507	150
					82.6	96.7	70.1	35.1
					31.3	35.0	26.0	7.7
Shinchi	1,433	1,110	63	77.5	341	377	300	92
					87.2	95.7	73.0	38.8
					30.7	34.0	27.0	8.3
Nakajima	1,079	801	9	74.2	226	273	248	54
					83.7	96.8	78.2	25.7
					28.2	34.1	31.0	6.7
Yabuki	3,277	2,462	53	75.1	869	828	625	140
					88.6	97.4	69.8	25.5
					35.3	33.6	25.4	5.7
Ishikawa	2,848	2,086	53	73.2	659	684	589	154
					92.7	94.7	70.9	26.4
					31.6	32.8	28.2	7.4
Yamatsuri	1,010	776	17	76.8	268	233	226	49
					93.4	98.7	71.7	28.5
					34.5	30.0	29.1	6.3
Asakawa	1,340	1,070	25	79.9	316	371	297	86
					92.9	97.9	79.8	34.5
					29.5	34.7	27.8	8.0
Hirata	1,208	829	13	68.6	273	284	215	57
					83.0	95.3	62.9	23.8
					32.9	34.3	25.9	6.9
Tanagura	2,988	2,259	41	75.6	754	730	622	153
					87.0	98.1	70.5	30.9
					33.4	32.3	27.5	6.8
Hanawa	1,662	1,218	26	73.3	368	382	371	97
					88.7	97.7	69.9	29.8
					30.2	31.4	30.5	8.0
Samegawa	694	507	14	73.1	171	170	128	38
					96.1	98.8	68.8	24.1
					33.7	33.5	25.2	7.5
Ono	1,936	1,327	34	68.5	395	468	358	106
					79.6	95.5	63.0	27.7
					29.8	35.3	27.0	8.0
Tamakawa	1,332	986	12	74.0	341	339	241	65
					88.8	97.7	65.3	28.0
					34.6	34.4	24.4	6.6
Furudono	1,040	792	23	76.2	263	239	233	57
					91.6	98.8	74.0	29.1
					33.2	30.2	29.4	7.2

As of 31 October 2014

Participants living outside Fukushima	Proportion (%)
c 4)	c/b
2,163	4.5
332	2.9
339	6.7
42	2.2
52	4.7
12	1.5
53	2.2
48	2.3
19	2.4
27	2.5
10	1.2
50	2.2
26	2.1
16	3.2
29	2.2
13	1.3
23	2.9

*Including districts of FY 2012

Screening coverage by municipality in FY 2013

	Target Population a	Participants		Proportion (%) b/a	Number and proportion of participants by age group			
		b	Screened outside Fukushima 5)		0-5	6-10	11-15	16-18
Hinoemata	107	61	3	57.0	15 65.2 24.6	27 90.0 44.3	19 55.9 31.1	0 0.0 0.0
Minami-aizu	2,823	1,809	22	64.1	605 84.9 33.4	641 94.0 35.4	457 54.3 25.3	106 18.1 5.9
Kaneyama	203	137	7	67.5	34 85.0 24.8	50 96.2 36.5	47 65.3 34.3	6 15.4 4.4
Showa	128	101	0	78.9	37 84.1 36.6	38 100.0 37.6	25 75.8 24.8	1 7.7 1.0
Mishima	192	129	1	67.2	29 67.4 22.5	54 98.2 41.9	37 69.8 28.7	9 22.0 7.0
Shimogo	1,007	691	13	68.6	243 91.7 35.2	233 92.5 33.7	177 60.4 25.6	38 19.3 5.5
Kitakata	8,910	5,727	68	64.3	1,635 71.3 28.5	2,232 95.6 39.0	1,485 57.6 25.9	375 22.0 6.5
Nishiaizu	1,019	638	4	62.6	201 93.1 31.5	238 97.1 37.3	172 51.5 27.0	27 12.1 4.2
Tadami	710	494	4	69.6	161 82.6 32.6	169 95.5 34.2	147 73.1 29.8	17 12.4 3.4
Inawashiro	2,662	1,881	34	70.7	612 86.9 32.5	643 97.6 34.2	481 62.6 25.6	145 27.3 7.7
Bandai	617	414	9	67.1	133 73.9 32.1	159 97.5 38.4	94 56.6 22.7	28 25.9 6.8
Kitashiobara	557	385	9	69.1	144 90.6 37.4	137 97.9 35.6	93 59.6 24.2	11 10.8 2.9
Aizumisato	3,658	2,551	25	69.7	827 90.3 32.4	873 96.0 34.2	686 62.5 26.9	165 22.4 6.5
Aizubange	3,081	2,080	29	67.5	613 80.0 29.5	752 94.0 36.2	576 60.1 27.7	139 25.0 6.7
Yanaizu	590	375	3	63.6	127 80.4 33.9	129 90.8 34.4	103 58.9 27.5	16 13.9 4.3
Aizuwakamatsu	22,987	14,685	320	63.9	4,155 66.4 28.3	5,639 94.5 38.4	4,029 61.2 27.4	862 20.6 5.9
Yugawa	676	508	7	75.1	166 92.7 32.7	177 100.0 34.8	128 66.7 25.2	37 28.9 7.3
Subtotal	158,781	115,435	3,070	72.7	34,690 80.0 30.1	39,327 95.6 34.1	31,964 70.3 27.7	9,454 32.8 8.2

As of 31 October 2014

Participants living outside Fukushima c 4)	Proportion (%) c/b
3	4.9
32	1.8
6	4.4
4	4.0
0	0.0
15	2.2
83	1.4
6	0.9
4	0.8
63	3.3
11	2.7
8	2.1
39	1.5
33	1.6
3	0.8
399	2.7
8	1.6
3,971	3.4

Total	367,686	296,586	9,361	80.7	86,429	91,852	84,730	33,575
					84.4	95.7	81.7	51.2
					29.1	31.0	28.6	11.3

20,191	6.8
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Appendix 3

Thyroid Ultrasound Examination (TUE) coverage by prefecture

As of 31 October 2014

Prefecture	Number of test venues	Participants	Prefecture	Number of test venues	Participants	Prefecture	Number of test venues	Participants
Hokkaido	4	332	Fukui	1	22	Hiroshima	1	37
Aomori	1	162	Yamanashi	1	82	Yamaguchi	1	24
Iwate	3	186	Nagano	2	132	Tokushima	1	10
Miyagi	2	1,519	Gifu	1	43	Kagawa	1	29
Akita	1	208	Shizuoka	2	110	Ehime	1	23
Yamagata	3	454	Aichi	3	179	Kōchi	1	14
Ibaraki	4	439	Mie	1	38	Fukuoka	2	81
Tochigi	5	448	Shiga	1	20	Saga	1	7
Gunma	1	185	Kyōto	3	97	Nagasaki	2	25
Saitama	1	249	Ōsaka	6	210	Kumamoto	1	25
Chiba	3	279	Hyōgo	1	135	Ōita	1	35
Tōkyō	12	1,757	Nara	1	25	Miyazaki	1	35
Kanagawa	4	745	Wakayama	1	13	Kagoshima	1	30
Niigata	1	614	Tottori	1	15	Okinawa	1	117
Toyama	1	34	Shimane	1	13			
Ishikawa	1	45	Okayama	3	79			
						Total	92	9,361

Participants underwent testing at venues outside Fukushima carried out either by Fukushima Medical University staff (twice in Niigata and Kanagawa respectively, and three times in Yamagata) or by local specialists.

Appendix 4

Thyroid Ultrasound Examination (TUE) results by municipality

Primary test results in FY 2011 (13 municipalities in the nationally designated zones)

As of 31 October 2014

	Participants a	Number confirmed b Proportion (%) b/a (%)	Number by test results				Nodules		Cysts	
			Proportion (%)				Proportion (%)		Proportion (%)	
			A		B	C	Proportion (%)		Proportion (%)	
			A1	A2			≥5.1mm	≤5.0mm	≥20.1mm	≤20.0mm
Kawamata	2,221	2,221	1,520	693	8	0	8	17	0	681
		100.0	68.4	31.2	0.4	0.0	0.4	0.8	0.0	30.7
Namie	3,249	3,249	2,119	1,104	26	0	26	42	0	1,088
		100.0	65.2	34.0	0.8	0.0	0.8	1.3	0.0	33.5
Iitate	943	943	693	244	6	0	6	15	0	233
		100.0	73.5	25.9	0.6	0.0	0.6	1.6	0.0	24.7
Minami-soma	10,789	10,789	6,789	3,948	52	0	52	87	0	3,905
		100.0	62.9	36.6	0.5	0.0	0.5	0.8	0.0	36.2
Date	10,605	10,605	6,748	3,807	50	0	48	31	1	3,808
		100.0	63.6	35.9	0.5	0.0	0.5	0.3	0.0	35.9
Tamura	6,325	6,325	4,000	2,293	32	0	32	11	0	2,299
		100.0	63.2	36.3	0.5	0.0	0.5	0.2	0.0	36.3
Hirono	838	838	521	312	5	0	5	3	0	313
		100.0	62.2	37.2	0.6	0.0	0.6	0.4	0.0	37.4
Naraha	1,153	1,153	651	495	7	0	7	4	0	498
		100.0	56.5	42.9	0.6	0.0	0.6	0.3	0.0	43.2
Tomioka	2,302	2,302	1,350	939	13	0	13	8	0	939
		100.0	58.6	40.8	0.6	0.0	0.6	0.3	0.0	40.8
Kawauchi	280	280	156	120	4	0	4	1	0	120
		100.0	55.7	42.9	1.4	0.0	1.4	0.4	0.0	42.9
Okuma	1,973	1,973	1,140	819	14	0	14	7	0	816
		100.0	57.8	41.5	0.7	0.0	0.7	0.4	0.0	41.4
Futaba	949	949	570	376	3	0	3	3	0	375
		100.0	60.1	39.6	0.3	0.0	0.3	0.3	0.0	39.5
Katsurao	183	183	116	66	1	0	1	3	0	65
		100.0	63.4	36.1	0.5	0.0	0.5	1.6	0.0	35.5
Subtotal	41,810	41,810	26,373	15,216	221	0	219	232	1	15,140
		100.0	63.1	36.4	0.5	0.0	0.5	0.6	0.0	36.2

Fractions are rounded and may not total to 100%.

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

Fractions have been rounded and may not total to 100%. Ages are at the time of the disaster.

While some participants who underwent the test at their schools had been categorized according to the municipalities of their schools in the previous survey, they were categorized into the municipalities they belonged at the time of the disaster.

Primary test results in FY 2012

As of 31 October 2014

	Participants a	Number confirmed b Proportion (%) b/a (%)	Number by test results				Nodules		Cysts	
			Proportion (%)							
			A		B	C	Proportion (%)		Proportion (%)	
			A1	A2			≥5.1mm	≤5.0mm	≥20.1mm	≤20.0mm
Fukushima	47,309	47,309	26,964	20,062	283	0	276	196	3	20,079
		100.0	57.0	42.4	0.6	0.0	0.6	0.4	0.0	42.4
Nihonmatsu	8,857	8,857	5,198	3,602	56	1	56	46	1	3,605
		100.0	58.7	40.7	0.6	0.0	0.6	0.5	0.0	40.7
Motomiya	5,234	5,234	2,955	2,250	29	0	27	25	1	2,254
		100.0	56.5	43.0	0.6	0.0	0.5	0.5	0.0	43.1
Otama	1,373	1,373	816	550	7	0	7	8	0	550
		100.0	59.4	40.1	0.5	0.0	0.5	0.6	0.0	40.1
Koriyama	54,063	54,000	27,894	25,648	458	0	454	332	3	25,731
		99.9	51.7	47.5	0.8	0.0	0.8	0.6	0.0	47.7
Kori	1,874	1,871	1,024	833	14	0	14	9	0	834
		99.8	54.7	44.5	0.7	0.0	0.7	0.5	0.0	44.6
Kunimi	1,437	1,436	763	658	15	0	14	9	1	662
		99.9	53.1	45.8	1.0	0.0	1.0	0.6	0.1	46.1
Tenei	878	878	528	343	7	0	7	4	0	348
		100.0	60.1	39.1	0.8	0.0	0.8	0.5	0.0	39.6
Shirakawa	10,811	10,808	6,109	4,638	61	0	61	54	0	4,635
		100.0	56.5	42.9	0.6	0.0	0.6	0.5	0.0	42.9
Nishigo	3,618	3,618	2,085	1,503	30	0	30	21	0	1,503
		100.0	57.6	41.5	0.8	0.0	0.8	0.6	0.0	41.5
Izumizaki	1,157	1,156	523	628	5	0	5	11	0	624
		99.9	45.2	54.3	0.4	0.0	0.4	1.0	0.0	54.0
Miharu	2,730	2,729	1,301	1,406	22	0	22	15	0	1,409
		100.0	47.7	51.5	0.8	0.0	0.8	0.5	0.0	51.6
Subtotal	139,341	139,269	76,160	62,121	987	1	973	730	9	62,234
		99.9	54.7	44.6	0.7	0.0	0.7	0.5	0.0	44.7

Primary test results in FY 2013

As of 31 October 2014

	Participants a	Number confirmed b Proportion (%) b/a (%)	Number by test results				Nodules		Cysts	
			Proportion (%)				Proportion (%)		Proportion (%)	
			A		B	C	Proportion (%)		Proportion (%)	
			A1	A2			≥5.1mm	≤5.0mm	≥20.1mm	≤20.0mm
Iwaki*	47,918	47,820	21,059	26,332	429	0	428	278	1	26,440
		99.8	44.0	55.1	0.9	0.0	0.9	0.6	0.0	55.3
Sukagawa	11,591	11,538	5,259	6,178	101	0	101	51	0	6,212
		99.5	45.6	53.5	0.9	0.0	0.9	0.4	0.0	53.8
Soma	5,085	5,077	2,414	2,617	46	0	46	45	0	2,628
		99.8	47.5	51.5	0.9	0.0	0.9	0.9	0.0	51.8
Kagamiishi	1,952	1,947	919	1,019	9	0	9	8	0	1,020
		99.7	47.2	52.3	0.5	0.0	0.5	0.4	0.0	52.4
Shinchi	1,110	1,109	505	597	7	0	7	5	0	601
		99.9	45.5	53.8	0.6	0.0	0.6	0.5	0.0	54.2
Nakajima	801	801	377	422	2	0	2	8	0	420
		100.0	47.1	52.7	0.2	0.0	0.2	1.0	0.0	52.4
Yabuki	2,462	2,454	1,043	1,394	17	0	17	8	0	1,402
		99.7	42.5	56.8	0.7	0.0	0.7	0.3	0.0	57.1
Ishikawa	2,086	2,082	953	1,118	11	0	11	15	0	1,118
		99.8	45.8	53.7	0.5	0.0	0.5	0.7	0.0	53.7
Yamatsuri	776	774	312	459	3	0	3	4	0	456
		99.7	40.3	59.3	0.4	0.0	0.4	0.5	0.0	58.9
Asakawa	1,070	1,067	459	596	12	0	12	10	0	602
		99.7	43.0	55.9	1.1	0.0	1.1	0.9	0.0	56.4
Hirata	829	826	371	446	9	0	9	2	0	452
		99.6	44.9	54.0	1.1	0.0	1.1	0.2	0.0	54.7
Tanagura	2,259	2,257	991	1,244	22	0	22	11	0	1,252
		99.9	43.9	55.1	1.0	0.0	1.0	0.5	0.0	55.5
Hanawa	1,218	1,211	490	713	8	0	8	9	0	716
		99.4	40.5	58.9	0.7	0.0	0.7	0.7	0.0	59.1
Samegawa	507	504	235	266	3	0	3	4	0	266
		99.4	46.6	52.8	0.6	0.0	0.6	0.8	0.0	52.8
Ono	1,327	1,320	513	793	14	0	14	13	0	795
		99.5	38.9	60.1	1.1	0.0	1.1	1.0	0.0	60.2
Tamakawa	986	984	438	536	10	0	10	6	0	540
		99.8	44.5	54.5	1.0	0.0	1.0	0.6	0.0	54.9
Furudono	792	791	383	402	6	0	6	5	0	406
		99.9	48.4	50.8	0.8	0.0	0.8	0.6	0.0	51.3

* Including districts of FY 2012

Primary test results in FY 2013

As of 31 October 2014

	Participants	Number confirmed b	Number by test results				Nodules		Cysts	
			Proportion (%)							
		Proportion (%) b/a (%)	A		B	C	Proportion (%)		Proportion (%)	
			A1	A2			≥5.1mm	≤5.0mm	≥20.1mm	≤20.0mm
Hinoemata	61	61	25	36	0	0	0	3	0	34
		100.0	41.0	59.0	0.0	0.0	0.0	4.9	0.0	55.7
Minami-aizu	1,809	1,805	738	1,051	16	0	16	13	0	1,053
		99.8	40.9	58.2	0.9	0.0	0.9	0.7	0.0	58.3
Kaneyama	137	136	64	72	0	0	0	1	0	72
		99.3	47.1	52.9	0.0	0.0	0.0	0.7	0.0	52.9
Showa	101	101	56	45	0	0	0	0	0	45
		100.0	55.4	44.6	0.0	0.0	0.0	0.0	0.0	44.6
Mishima	129	129	38	90	1	0	1	0	0	91
		100.0	29.5	69.8	0.8	0.0	0.8	0.0	0.0	70.5
Shimogo	691	690	318	362	10	0	10	4	0	365
		99.9	46.1	52.5	1.4	0.0	1.4	0.6	0.0	52.9
Kitakata	5,727	5,717	2,270	3,401	46	0	46	41	0	3,408
		99.8	39.7	59.5	0.8	0.0	0.8	0.7	0.0	59.6
Nishiaizu	638	638	243	390	5	0	5	5	0	392
		100.0	38.1	61.1	0.8	0.0	0.8	0.8	0.0	61.4
Tadami	494	492	202	283	7	0	7	3	0	285
		99.6	41.1	57.5	1.4	0.0	1.4	0.6	0.0	57.9
Inawashiro	1,881	1,877	780	1,084	13	0	13	13	0	1,085
		99.8	41.6	57.8	0.7	0.0	0.7	0.7	0.0	57.8
Bandai	414	413	168	241	4	0	4	2	0	243
		99.8	40.7	58.4	1.0	0.0	1.0	0.5	0.0	58.8
Kitashiobara	385	383	160	222	1	0	1	3	0	222
		99.5	41.8	58.0	0.3	0.0	0.3	0.8	0.0	58.0
Aizumisato	2,551	2,548	1,060	1,462	26	0	26	17	0	1,474
		99.9	41.6	57.4	1.0	0.0	1.0	0.7	0.0	57.8
Aizubange	2,080	2,079	842	1,212	25	0	25	9	0	1,222
		100.0	40.5	58.3	1.2	0.0	1.2	0.4	0.0	58.8
Yanaizu	375	375	177	196	2	0	2	0	0	198
		100.0	47.2	52.3	0.5	0.0	0.5	0.0	0.0	52.8
Aizuwakamatsu	14,685	14,661	6,052	8,449	160	0	159	114	1	8,498
		99.8	41.3	57.6	1.1	0.0	1.1	0.8	0.0	58.0
Yugawa	508	507	186	314	7	0	7	2	0	317
		99.8	36.7	61.9	1.4	0.0	1.4	0.4	0.0	62.5
Subtotal	115,435	115,174	50,100	64,042	1,032	0	1,030	712	2	64,330
		99.8	43.5	55.6	0.9	0.0	0.9	0.6	0.0	55.9
Total	296,586	296,253	152,633	141,379	2,240	1	2,222	1,674	12	141,704
		99.9	51.5	47.7	0.8	0.0	0.8	0.6	0.0	47.8

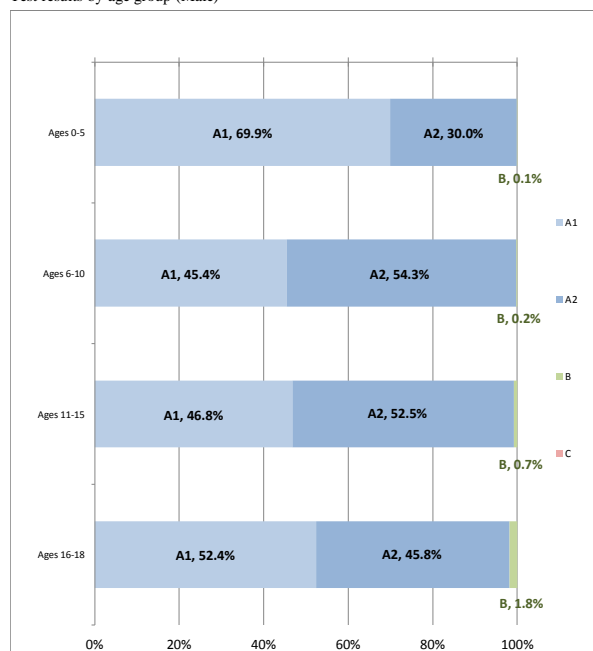
Appendix 5

1. Thyroid Ultrasound Examination results by age and sex

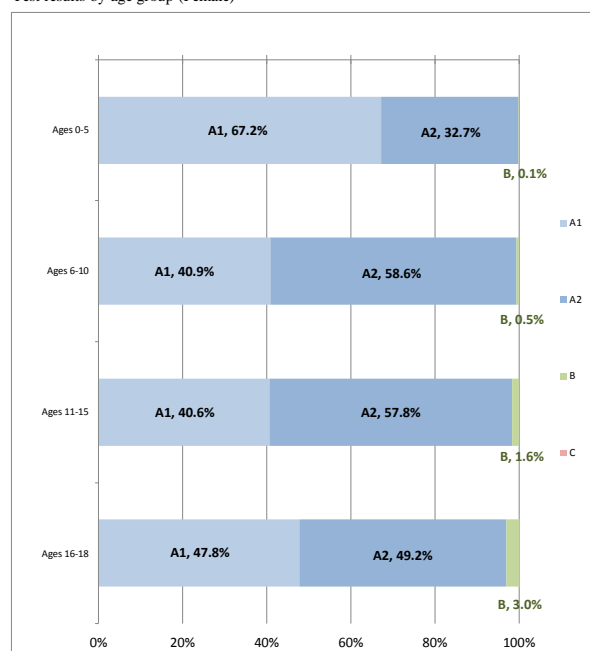
As of 31 October 2014

Ages	A						B			C			Total		
	A1			A2			Male	Female	Total	Male	Female	Total	Male	Female	Total
	Male	Female	Total	Male	Female	Total									
0-5	30,969	28,259	59,228	13,278	13,733	27,011	41	57	98	0	0	0	44,288	42,049	86,337
6-10	21,413	18,296	39,709	25,589	26,180	51,769	116	236	352	0	0	0	47,118	44,712	91,830
11-15	19,908	17,075	36,983	22,354	24,301	46,655	316	654	970	0	0	0	42,578	42,030	84,608
16-18	8,160	8,553	16,713	7,141	8,803	15,944	279	541	820	0	1	1	15,580	17,898	33,478
Total	80,450	72,183	152,633	68,362	73,017	141,379	752	1,488	2,240	0	1	1	149,564	146,689	296,253

Test results by age group (Male)



Test results by age group (Female)



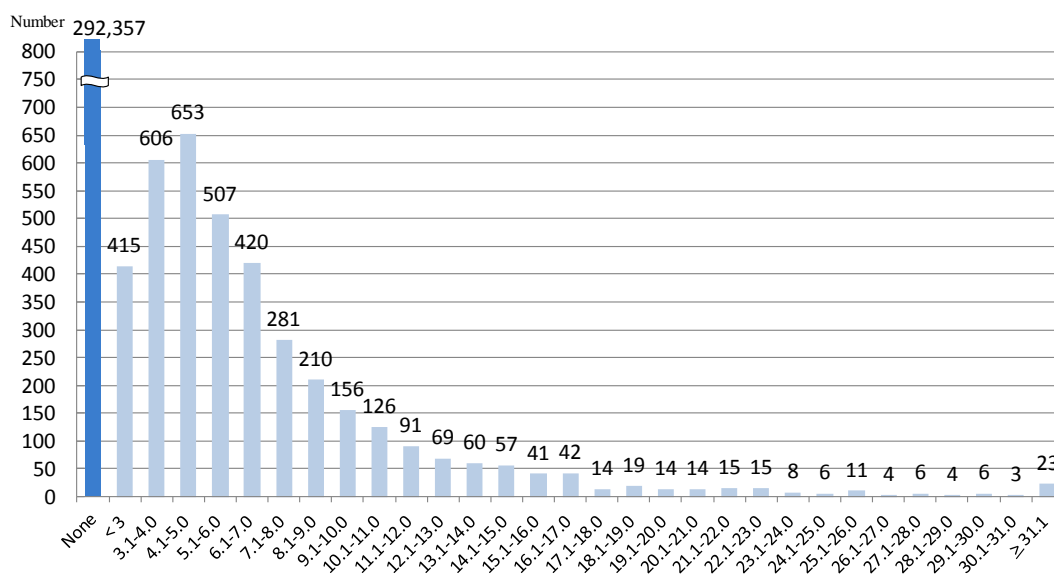
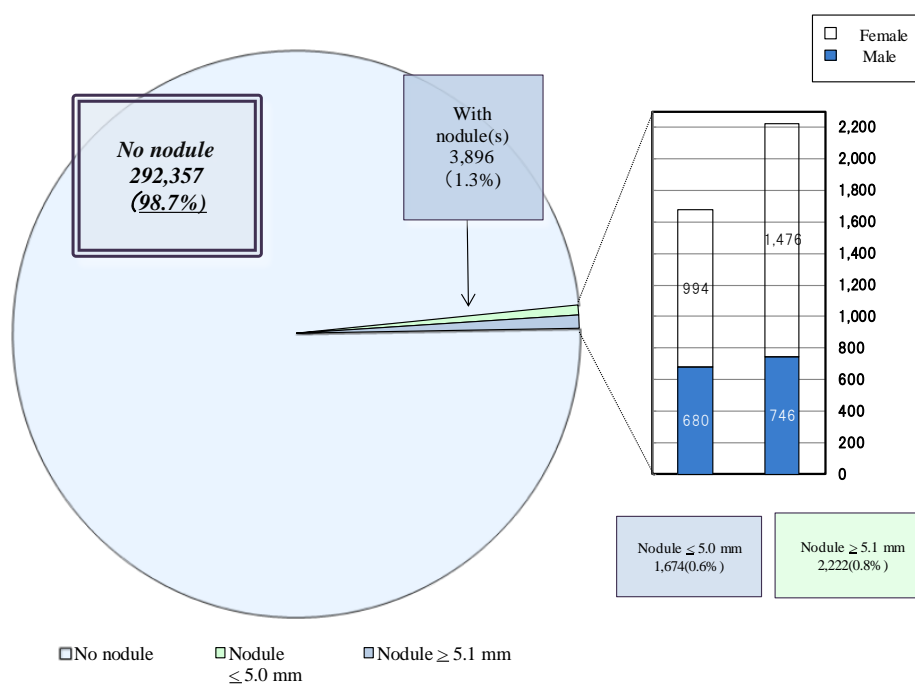
Percentages have been rounded and may not total to 100%.

Ages are at the time of the disaster.

2. Nodule size

As of 31 October 2014

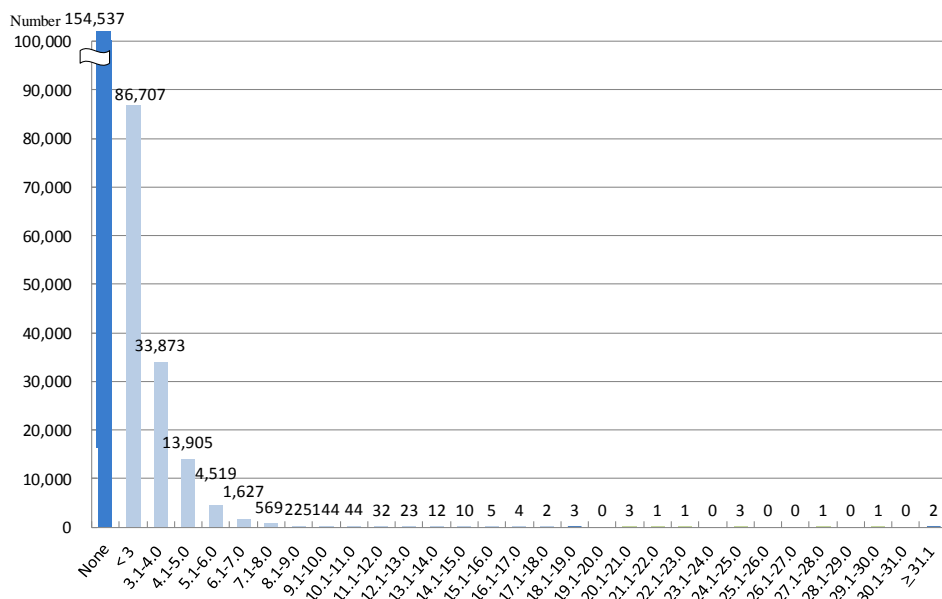
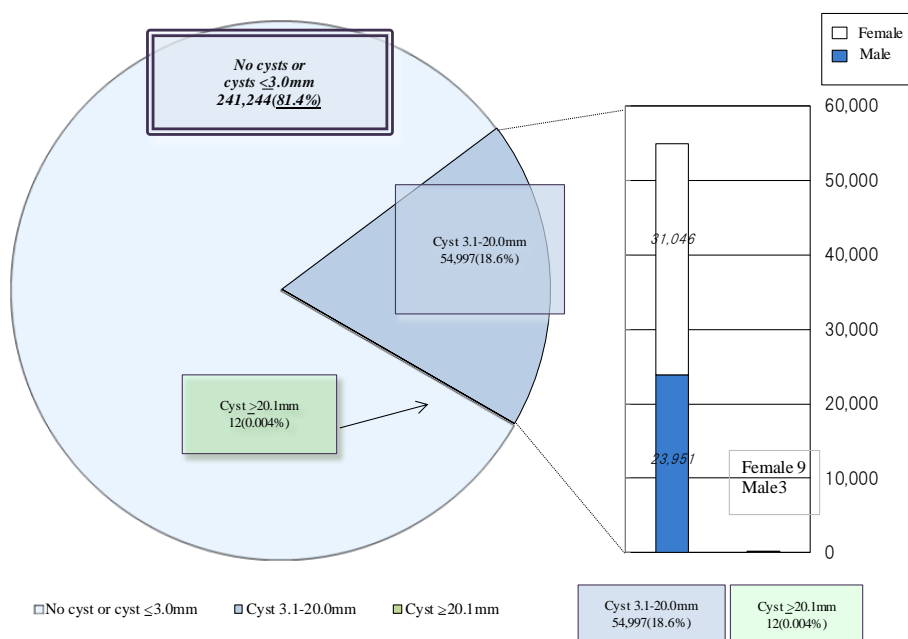
Nodule size	Total	Gender		Test result	Proportion
		Male	Female		
None	292,357	148,138	144,219	A1	98.7%
< 3.0 mm	415	187	228	A2	0.6%
3.1-5.0 mm	1,259	493	766		
5.1-10.0 mm	1,574	561	1,013	B	0.8%
10.1-15.0 mm	403	113	290		
15.1-20.0 mm	130	39	91		
20.1-25.0 mm	58	17	41		
≥ 25.1 mm	57	16	41		
Total	296,253	149,564	146,689		



3. Cyst size

As of 31 October 2014

Cyst size	Total	Class		%
		Male	Female	
None	154,537	81,182	73,355	81.4%
≤ 3.0 mm	86,707	44,428	42,279	
3.1-5.0 mm	47,778	21,396	26,382	
5.1-10.0 mm	7,084	2,513	4,571	
10.1-15.0 mm	121	41	80	
15.1-20.0 mm	14	1	13	18.6%
20.1-25.0 mm	8	1	7	
≥ 25.1 mm	4	2	2	
Total	296,253	149,564	146,689	



Appendix 6

Confirmatory test results by municipality

As of 31 October 2014

Confirmatory test results by municipality								Number of confirmed results					
	Number of children screened	Number who required confirmatory test	Number of children who underwent confirmatory test by age					Total	Next screening advised		Follow-up advised		
			Total	Ages 0-5	Ages 6-10	Ages 11-15	Ages 16-18		A1 i	A2 j	k	Aspiration biopsy l	
a	b	c	d	e	f	g	h	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)		
Target municipalities for Confirmatory test in FY 2011													
Kawamata	2,221	8	8	0	1	3	4	7	1	0	6	5	
		0.4	100.0	0.0	12.5	37.5	50.0	87.5	14.3	0.0	85.7	83.3	
		26	23	1	3	7	12	23	1	4	18	12	
Namie	3,249	0.8	88.5	4.3	13.0	30.4	52.2	100.0	4.3	17.4	78.3	66.7	
		6	6	0	2	1	3	6	0	3	3	3	
		0.6	100.0	0.0	33.3	16.7	50.0	100.0	0.0	50.0	50.0	100.0	
Iitate	943	52	48	6	5	16	21	48	4	11	33	19	
		0.5	92.3	12.5	10.4	33.3	43.8	100.0	8.3	22.9	68.8	57.6	
		50	45	0	3	16	26	45	4	8	33	23	
Minami-soma	10,789	0.5	90.0	0.0	6.7	35.6	57.8	100.0	8.9	17.8	73.3	69.7	
		32	26	1	3	12	10	26	0	5	21	14	
		0.5	81.3	3.8	11.5	46.2	38.5	100.0	0.0	19.2	80.8	66.7	
Date	10,605	5	4	0	1	1	2	4	1	2	1	0	
		0.6	80.0	0.0	25.0	25.0	50.0	100.0	25.0	50.0	25.0	0.0	
		7	6	1	0	1	4	6	0	2	4	2	
Naraha	1,153	0.6	85.7	16.7	0.0	16.7	66.7	100.0	0.0	33.3	66.7	50.0	
		13	12	0	1	5	6	12	0	2	10	7	
		0.6	92.3	0.0	8.3	41.7	50.0	100.0	0.0	16.7	83.3	70.0	
Tomioka	2,302	4	4	0	1	0	3	4	0	1	3	2	
		1.4	100.0	0.0	25.0	0.0	75.0	100.0	0.0	25.0	75.0	66.7	
		14	13	1	1	6	5	13	1	5	7	2	
Kawauchi	280	0.7	92.9	7.7	7.7	46.2	38.5	100.0	7.7	38.5	53.8	28.6	
		3	2	0	0	1	1	2	0	0	2	2	
		0.3	66.7	0.0	0.0	50.0	50.0	100.0	0.0	0.0	100.0	100.0	
Okuma	1,973	1	1	0	1	0	0	1	0	1	0	0	
		0.5	100.0	0.0	100.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	
		221	198	10	22	69	97	197	12	44	141	91	
Subtotal	41,810	0.5	89.6	5.1	11.1	34.8	49.0	99.5	6.1	22.3	71.6	64.5	
		Target municipalities for Confirmatory test in FY 2012											
		Fukushima	47,309	283	271	6	28	106	131	264	12	68	184	93
0.6	95.8			2.2	10.3	39.1	48.3	97.4	4.5	25.8	69.7	50.5	
57	54			0	5	27	22	52	2	7	43	24	
Nihonmatsu	8,857	0.6	94.7	0.0	9.3	50.0	40.7	96.3	3.8	13.5	82.7	55.8	
		29	29	1	4	14	10	28	0	9	19	7	
		0.6	100.0	3.4	13.8	48.3	34.5	96.6	0.0	32.1	67.9	36.8	
Motomiya	5,234	7	7	0	0	4	3	7	0	1	6	4	
		0.5	100.0	0.0	0.0	57.1	42.9	100.0	0.0	14.3	85.7	66.7	
		458	413	20	65	172	156	399	24	127	248	99	
Otama	1,373	0.8	90.2	4.8	15.7	41.6	37.8	96.6	6.0	31.8	62.2	39.9	
		14	13	1	2	3	7	13	0	2	11	3	
		0.7	92.9	7.7	15.4	23.1	53.8	100.0	0.0	15.4	84.6	27.3	
Koriyama	54,063	15	13	2	2	2	7	13	1	2	10	4	
		1.0	86.7	15.4	15.4	15.4	53.8	100.0	7.7	15.4	76.9	40.0	
		7	6	1	2	1	2	6	1	2	3	0	
Kori	1,874	0.8	85.7	16.7	33.3	16.7	33.3	100.0	16.7	33.3	50.0	0.0	
		61	59	2	10	27	20	58	6	13	39	15	
		0.6	96.7	3.4	16.9	45.8	33.9	98.3	10.3	22.4	67.2	38.5	
Kunimi	1,437	30	26	2	6	9	9	26	2	8	16	5	
		0.8	86.7	7.7	23.1	34.6	34.6	100.0	7.7	30.8	61.5	31.3	
		5	5	0	2	0	3	5	1	2	2	1	
Tenei	878	0.4	100.0	0.0	40.0	0.0	60.0	100.0	20.0	40.0	40.0	50.0	
		22	21	0	1	11	9	21	4	4	13	6	
		0.8	95.5	0.0	4.8	52.4	42.9	100.0	19.0	19.0	61.9	46.2	
Shirakawa	10,811	988	917	35	127	376	379	892	53	245	594	261	
		0.7	92.8	3.8	13.8	41.0	41.3	97.3	5.9	27.5	66.6	43.9	

h) Excluding participants who have not receive the test results.

As of 31 October 2014

As of 31 October 2014														
	Number of children screened	Number who required confirmatory test	Number of children who underwent confirmatory test by age					Number of confirmed results						
			Total	Ages 0-5	Ages 6-10	Ages 11-15	Ages 16-18	Total	Next screening advised		Follow-up advised			
									A1	A2	k	Aspiration biopsy		
													i	j	l
a	b	c	d	e	f	g	h	i	j	k	l			
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)			
Target municipalities for Confirmatory test in FY 2013														
Iwaki*	47,918	429	394	21	59	193	121	380	20	121	239	83		
		0.9	91.8	5.3	15.0	49.0	30.7	96.4	5.3	31.8	62.9	34.7		
Sukagawa	11,591	101	96	6	16	52	22	95	7	32	56	12		
		0.9	95.0	6.3	16.7	54.2	22.9	99.0	7.4	33.7	58.9	21.4		
Soma	5,085	46	42	3	9	19	11	41	3	16	22	6		
		0.9	91.3	7.1	21.4	45.2	26.2	97.6	7.3	39.0	53.7	27.3		
Kagamiishi	1,952	9	8	0	4	3	1	8	0	1	7	1		
		0.5	88.9	0.0	50.0	37.5	12.5	100.0	0.0	12.5	87.5	14.3		
Shinchi	1,110	7	7	0	3	3	1	6	0	0	6	3		
		0.6	100.0	0.0	42.9	42.9	14.3	85.7	0.0	0.0	100.0	50.0		
Nakajima	801	2	2	0	0	1	1	2	0	0	2	1		
		0.2	100.0	0.0	0.0	50.0	50.0	100.0	0.0	0.0	100.0	50.0		
Yabuki	2,462	17	13	0	2	6	5	12	0	3	9	1		
		0.7	76.5	0.0	15.4	46.2	38.5	92.3	0.0	25.0	75.0	11.1		
Ishikawa	2,086	11	10	0	4	4	2	10	0	1	9	5		
		0.5	90.9	0.0	40.0	40.0	20.0	100.0	0.0	10.0	90.0	55.6		
Yamatsuri	776	3	2	0	0	1	1	2	0	0	2	0		
		0.4	66.7	0.0	0.0	50.0	50.0	100.0	0.0	0.0	100.0	0.0		
Asakawa	1,070	12	10	1	1	5	3	10	0	2	8	2		
		1.1	83.3	10.0	10.0	50.0	30.0	100.0	0.0	20.0	80.0	25.0		
Hirata	829	9	9	0	4	3	2	8	1	1	6	1		
		1.1	100.0	0.0	44.4	33.3	22.2	88.9	12.5	12.5	75.0	16.7		
Tanagura	2,259	22	22	2	5	9	6	19	2	2	15	5		
		1.0	100.0	9.1	22.7	40.9	27.3	86.4	10.5	10.5	78.9	33.3		
Hanawa	1,218	8	7	0	1	3	3	4	0	1	3	0		
		0.7	87.5	0.0	14.3	42.9	42.9	57.1	0.0	25.0	75.0	0.0		
Samegawa	507	3	1	0	0	0	1	1	0	0	1	0		
		0.6	33.3	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	0.0		
Ono	1,327	14	13	1	2	6	4	13	1	4	8	0		
		1.1	92.9	7.7	15.4	46.2	30.8	100.0	7.7	30.8	61.5	0.0		
Tamakawa	986	10	8	1	2	2	3	8	0	2	6	1		
		1.0	80.0	12.5	25.0	25.0	37.5	100.0	0.0	25.0	75.0	16.7		
Furudono	792	6	6	0	1	4	1	6	0	2	4	1		
		0.8	100.0	0.0	16.7	66.7	16.7	100.0	0.0	33.3	66.7	25.0		
Hinoemata	61	0	0	0	0	0	0	0	0	0	0	0		
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Minami-aizu	1,809	16	15	0	7	7	1	13	1	3	9	2		
		0.9	93.8	0.0	46.7	46.7	6.7	86.7	7.7	23.1	69.2	22.2		
Kaneyama	137	0	0	0	0	0	0	0	0	0	0	0		
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Showa	101	0	0	0	0	0	0	0	0	0	0	0		
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Mishima	129	1	1	0	1	0	0	1	0	0	1	0		
		0.8	100.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0		
Shimogo	691	10	9	0	1	5	3	8	0	3	5	2		
		1.4	90.0	0.0	11.1	55.6	33.3	88.9	0.0	37.5	62.5	40.0		
Kitakata	5,727	46	40	1	11	17	11	40	2	11	27	11		
		0.8	87.0	2.5	27.5	42.5	27.5	100.0	5.0	27.5	67.5	40.7		
Nishiaizu	638	5	4	0	2	1	1	2	0	0	2	0		
		0.8	80.0	0.0	50.0	25.0	25.0	50.0	0.0	0.0	100.0	0.0		
Tadami	494	7	6	0	3	3	0	6	0	2	4	1		
		1.4	85.7	0.0	50.0	50.0	0.0	100.0	0.0	33.3	66.7	25.0		
Inawashiro	1,881	13	12	1	1	7	3	12	2	3	7	1		
		0.7	92.3	8.3	8.3	58.3	25.0	100.0	16.7	25.0	58.3	14.3		
Bandai	414	4	3	1	0	1	1	3	1	0	2	0		
		1.0	75.0	33.3	0.0	33.3	33.3	100.0	33.3	0.0	66.7	0.0		
Kitashiobara	385	1	1	1	0	0	0	1	0	1	0	0		
		0.3	100.0	100.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0		
Aizumisato	2,551	26	23	0	4	12	7	21	2	9	10	3		
		1.0	88.5	0.0	17.4	52.2	30.4	91.3	9.5	42.9	47.6	30.0		
Aizubange	2,080	25	23	3	4	9	7	23	0	4	19	4		
		1.2	92.0	13.0	17.4	39.1	30.4	100.0	0.0	17.4	82.6	21.1		
Yanaizu	375	2	2	0	0	2	0	2	0	1	1	0		
		0.5	100.0	0.0	0.0	100.0	0.0	100.0	0.0	50.0	50.0	0.0		
Aizuwakamatsu	14,685	160	140	6	31	76	27	132	8	43	81	20		
		1.1	87.5	4.3	22.1	54.3	19.3	94.3	6.1	32.6	61.4	24.7		
Yugawa	508	7	7	0	1	3	3	7	1	0	6	1		
		1.4	100.0	0.0	14.3	42.9	42.9	100.0	14.3	0.0	85.7	16.7		
Subtotal	115,435	1,032	936	48	179	457	252	896	51	268	577	167		
		0.9	90.7	5.1	19.1	48.8	26.9	95.7	5.7	29.9	64.4	28.9		
Total	296,586	2,241	2,051	93	328	902	728	1,985	116	557	1,312	519		
		0.8	91.5	4.5	16.0	44.0	35.5	96.8	5.8	28.1	66.1	39.6		

*Including districts of FY 2012

Thyroid Ultrasound Examination (Full-scale Thyroid Screening Program)

Reported on 25 December 2014

Revised on 2 February 2015

1. Summary

1.1 Purpose

In order to protect the long-term health of children, we are now engaged in a Full-scale Thyroid Screening Program following a preliminary Initial Screening period.

1.2 Group

Residents of Fukushima Prefecture including visitors who were born between 2 April 1992 and 1 April 2011 (Initial Screening), and those who were born between 2 April 2011 and 1 April 2012.

1.3 Implementation Period

The full-scale screening starts from 2 April 2014 and lasts for two years.

We repeat the examination every two years until the age of 20, and every five years afterwards.

1.4 Responsible Organizations

Fukushima Prefecture commissioned Fukushima Medical University to conduct the survey in cooperation with institutions inside and outside Fukushima.

We provide the Primary Examination at ten medical institutions under contract, and try to have more institutions inside Fukushima Prefecture.

Ninety-two institutions outside Fukushima have agreed to cooperate as of 31 October 2014.

The confirmatory examination has been conducted in Koriyama and Iwaki in Fukushima Prefecture from July 2013, Aizuwakamatsu from August 2014, and several institutions outside Fukushima Prefecture from November 2013. There are 25 institutions that provide the examination as of 31 October 2014.

1.5 Method

1.5-1 Primary Examination

We used ultrasonography for examination of the thyroid gland.

Assessments were made by specialists on the basis of the following criteria.

-Diagnostic Criteria: A

Those with A1 and A2 test results were advised to take the next examination starting from April 2014.

(A1) No nodules / cysts

(A2) Nodules $\leq 5.0\text{mm}$ or cysts $\leq 20.0\text{mm}$

-Diagnostic Criteria: B

Those with B test result are advised to take the Confirmatory Examination.

(B) Nodules $\geq 5.1\text{mm}$ or cysts $\geq 20.1\text{mm}$

Some A2 test results may be classified as B results when clinically indicated.

-Diagnostic Criteria: C

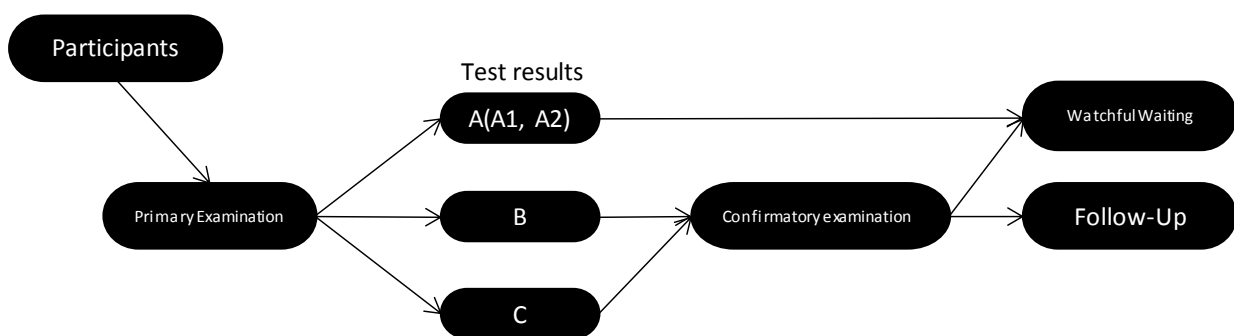
Those with C test result are advised to take the Confirmatory Examination.

(C) Immediate need for confirmatory examination.



1.5-2 Confirmatory Examination

We conduct fine-needle aspiration cytology (FNAC), blood test, and urine test for those with B or C test results.

1.5-3 Flow chart



1.6 Target Municipalities

-  25 target municipalities for FY 2014
-  34 target municipalities for FY 2015



2. Results (As of 31 October 2014)

2.1-1 Primary Examination

The Primary Examination started from 2 April 2014, and the participation rate as of 31 October 2014 is 37.9% (82,101) out of around 220,000 from 25 municipalities (Appendix 1 and 2).

The results have been returned to 73.7% (60,505) of the participants (Appendix 3).

Those with A1 or A2 test results were 60,048 (99.2%), B were 457 (0.8%), and C were 0.

Table 1. Screening test coverage as of 31 October 2014

	Target Population a	Participants		Proportion (%) c (c/b)	Test results			
		Proportion (%) b (b/a)	Screened outside Fukushima		Class			
					A		Requiring confirmatory test	
					A1 d (d/c)	A2 e (e/c)	B f (f/c)	C g (g/c)
FY 2014	216,189	81,621 (37.8)	5,057	60,110 (73.6)	25,418 (42.3)	34,237 (57.0)	455 (0.8)	0 (0.0)
FY 2015	480	480 (100.0)	4	395 (82.3)	145 (36.7)	248 (62.8)	2 (0.5)	0 (0.0)
Total	216,669	82,101 (37.9)	5,061	60,505 (73.7)	25,563 (42.2)	34,485 (57.0)	457 (0.8)	0 (0.0)

Table 2. Number and proportion of children with nodules/cysts as of 31 October 2014

	Number of confirmed screening results a	Number and proportions of children with nodules/cysts			
		Nodules		Cysts	
		≥5.1mm b (b/a)	≤5.0mm c (c/a)	≥20.1mm d (d/a)	≤20.0mm e (e/a)
FY 2014	60,110	453 (0.8)	358 (0.6)	1 (0.0)	34,388 (57.2)
FY 2015	395	2 (0.5)	2 (0.5)	0 (0.0)	247 (62.5)
Total	60,505	455 (0.8)	360 (0.6)	1 (0.0)	34,635 (57.2)

Fractions have been rounded and may not total to 100%.

2.1-2 Comparison with the Initial Screening

Among 60,048 participants who were diagnosed as A1 or A2, 56,204 (93.6%) had A1 or A2 results from the Initial Screening. Among 457 participants who were diagnosed as B, 333 (72.9%) had A1 or A2 results from the Initial Screening.

Table 3. Changes in the results of Initial Screening and Full-scale Thyroid Screening Program as of 31 October 2014

			Number of confirmed test results of Full-scale Thyroid Screening Program (%) a	Results of the Initial Screening				
				A		B d d/a (%)	C e e/a (%)	Non-participants f f/a (%)
				A1 b b/a (%)	A2 c c/a (%)			
Results of the Full-scale Thyroid Screening	A	A1	25,563 (100.0)	21,142 (82.7)	1,899 (7.4)	19 (0.1)	0 (0.0)	2,503 (9.8)
		A2	34,485 (100.0)	12,840 (37.2)	20,323 (58.9)	65 (0.2)	0 (0.0)	1,257 (3.6)
	B		457 (100.0)	127 (27.8)	206 (45.1)	108 (23.6)	0 (0.0)	16 (3.5)
	C		0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
	Total		60,505 (100.0)	34,109 (56.4)	22,428 (37.1)	192 (0.3)	0 (0.0)	3,776 (6.2)

2.1-3 Confirmatory Examination

The number of children who required further testing (started in June 2014) is 457, of whom 248 (54.3%) underwent the confirmatory testing. Among them, 155 (62.5%) have completed the tests (Appendix 4).

Of 155 participants with B test results from the Primary Examination, 62 (40.0%) with confirmed test results of Confirmatory Examination have been confirmed within the range of A1 and A2, and were advised to take their next regularly scheduled examination.

Those who require 6- 12-month follow-up provided by health insurance were 93 (60.0%).

Table 4. Confirmatory testing coverage and results as of 31 October 2014

	Number of children requiring confirmatory test a	Participants Proportion (%) b (b/a)	Confirmatory test coverage (%) c (c/b)	Confirmed test results			
				Next screening advised		Follow-up advised	
				A1 d (d/c)	A2 e (e/c)	f (f/c)	Cytology g (g/f)
FY 2014	455	246 (54.1)	155 (63.0)	9 (5.8)	53 (34.2)	93 (60.0)	11 (11.8)
FY 2015	2	2 (100.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Total	457	248 (54.3)	155 (62.5)	9 (5.8)	53 (34.2)	93 (60.0)	11 (11.8)

Priority was given to those in urgent clinical need.

Those confirmed within the range of A1 and A2 (including those with other thyroid conditions) were advised to take their next regularly scheduled examination.

Those who require 6- or 12-month follow-up provided by health insurance and those beyond the specified level of A2 were categorized as “Follow-up advised”.

2.2 Fine Needle Aspiration Biopsy and Cytology (FNAC)

2.2-1 Aspiration biopsy cytology results

Table 5. Target municipalities in FY 2014

Suspicious or malignant	4 (0 surgical case)
Male to female ratio	3:1
Mean age (SD, min-max)	15.5 (4.8, 10-20) 12.0 (5.0, 6-17) at the time of the disaster
Mean tumor size	12.0 mm (4.4 mm, 7.0-17.3 mm)

2.2-2 Suspicious or malignant cases on FNAC by age and sex

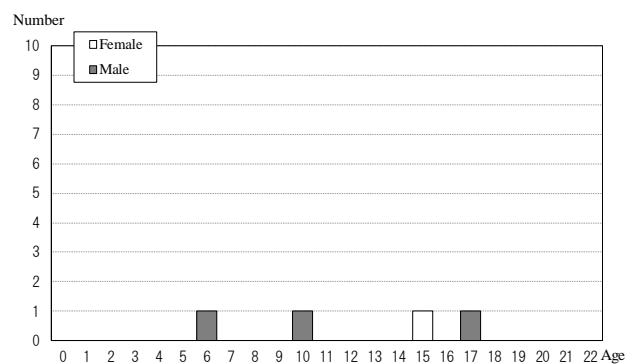


Fig.3 Age as of 11 March 2011

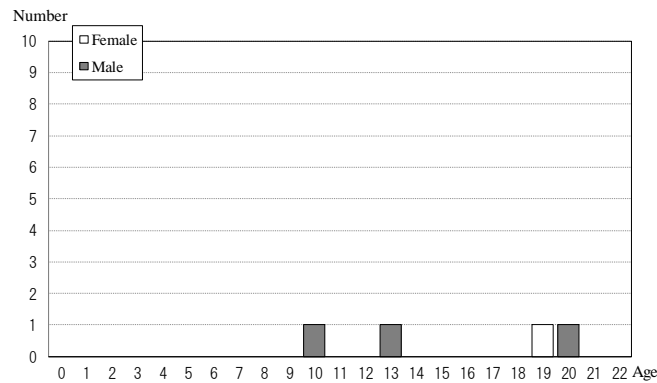


Fig. 4 Age as the date of confirmatory examination

2.2-3 Suspicious or malignant cases on FNAC by estimated radiation dose

Three of the 4 cases (75.0%) participated in the Basic Survey (radiation dose estimates) and have received the results. Among those, 1 had estimated radiation exposure dose below 1 mSv, and the highest effective dose was 2.1 mSv.

Table 6. Number of suspicious or malignant cases by age and sex

As of 31 October 2014

Effective dose (mSv)	Sex	Age at the time of disaster				
		0-5	6-10	11-15	16-18	Total
<0.5	Male	0	0	0	0	0
	Female	0	0	0	0	0
0.5-1.0	Male	0	1	0	0	1
	Female	0	0	0	0	0
1.0-1.5	Male	0	0	0	1	1
	Female	0	0	0	0	0
1.5-2.0	Male	0	0	0	0	0
	Female	0	0	0	0	0
2.0-2.5	Male	0	1	0	0	1
	Female	0	0	0	0	0
Total	Male	0	2	0	1	3
	Female	0	0	0	0	0

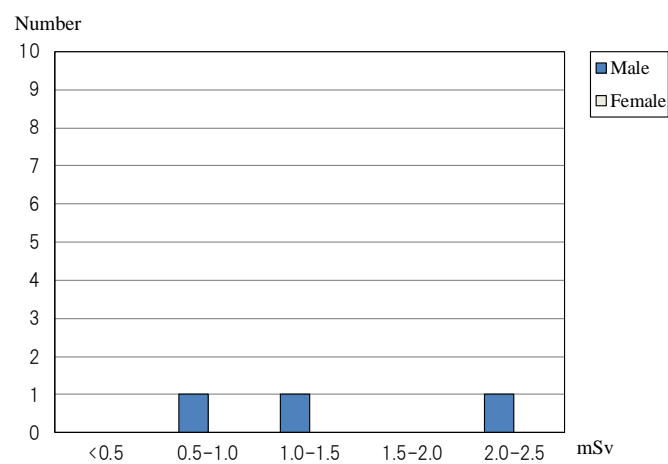


Fig. 5 Effective dose of the respondents

2.2-4 Blood and urinary iodine test results as of 31 October 2014

Table 7. Blood test results Mean±SD (Abnormality ratio)

	FT4 1) (ng/dL)	FT3 2) (pg/mL)	TSH 3) (μIU/mL)	Tg 4) (ng/mL)	TgAb 5) (IU/mL)	TPOAb 6) (IU/mL)
Reference Range	0.95-1.74	2.13-4.07 7)	0.340-3.880	≤32.7	<28.0	<16.0
4 suspicious or malignant	1.3 ± 0.1 (0.0%)	3.8 ± 0.6 (0.0%)	2.4 ± 1.2 (0.0%)	62.2 ± 64.6 (50.0%)	— (0.0%)	— (25.0%)
Other 150	1.2 ± 0.1 (6.7%)	3.7 ± 0.5 (4.7%)	1.5 ± 1.0 (9.3%)	20.3 ± 41.4 (9.3%)	— (12.7%)	— (10.0%)

Table 8. Urinary iodine (μg/day)

	Minimum	25th percentile	Median	75th percentile	Maximum
4 suspicious or malignant	61	76.5	139.5	556.5	690
Other 150	38	119	178	372	3,550

- 1) FT4: Free Thyroxine; higher among patients with Graves' disease and lower with Hashimoto's disease.
- 2) FT3: Free Triiodothyronine; higher among patients with Graves' disease and lower with Hashimoto's disease.
- 3) TSH: Thyroid Stimulating Hormone; higher among patients with Hashimoto's disease and lower with Graves' disease.
- 4) Tg: Thyroglobulin; higher when thyroid tissue is destroyed or when thyroid cancer produces thyroglobulin.
- 5) TgAb: Anti-Thyroglobulin Antibody; higher among patients with Hashimoto's disease and Graves' disease.
- 6) TPOAb: Anti-Thyroid Peroxidase Antibody; higher among patients with Hashimoto's disease or Graves' disease.
- 7) Reference range differs according to age.

2.2-5 Confirmatory test results by municipality as of 31 October 2014

The proportion of suspicious or malignant is 0.00% in FY 2014 target municipalities (13 municipalities in the nationally designated evacuation zones and 12 towns of the Kempoku area), 0.00% in FY 2015 target municipalities (34 towns of the Iwaki, Kennan, and Aizu areas).

Table 9.

Confirmatory test results in FY 2014

	Number of children screened	Number who required confirmatory test	Proportion who required confirmatory test (%)	Number who underwent confirmatory test	Suspicious or malignant cases	Proportion of suspicious or malignant cases (%)
Kawamata	1,664	19	1.1	14	0	0.00
Namie	1,829	17	0.9	10	0	0.00
Iitate	682	10	1.5	6	0	0.00
Minami-soma	7,375	55	0.7	37	0	0.00
Date	8,592	65	0.8	50	1	0.01
Tamura	4,031	33	0.8	21	1	0.02
Hirono	485	7	1.4	6	0	0.00
Naraha	703	4	0.6	3	0	0.00
Tomioka	1,184	13	1.1	8	0	0.00
Kawauchi	146	0	0.0	0	0	0.00
Okuma	1,224	6	0.5	5	1	0.08
Futaba	433	2	0.5	0	0	0.00
Katsurao	90	1	1.1	1	0	0.00
Fukushima	39,568	214	0.5	81	1	0.00
Nihonmatsu	7,196	5	0.1	2	0	0.00
Motomiya	4,028	0	0.0	0	0	0.00
Otama	1,131	0	0.0	0	0	0.00
Koriyama	509	0	0.0	0	0	0.00
Kori	332	0	0.0	0	0	0.00
Kunimi	274	1	0.4	0	0	0.00
Tenei	7	0	0.0	0	0	0.00
Shirakawa	24	0	0.0	0	0	0.00
Nishigo	11	0	0.0	0	0	0.00
Izumizaki	1	0	0.0	0	0	0.00
Miharu	102	3	2.9	2	0	0.00
Subtotal	81,621	455	0.6	246	4	0.00

Confirmatory test results in FY 2015

Subtotal	480	2	0.4	2	0	0.00
Total	82,101	457	0.6	248	4	0.00

FY 2014 is from 1 April 2014 through 31 March 2015.

FY 2015 is from 1 April 2015 through 31 March 2016.

Appendix 1

Thyroid Ultrasound Examination (TUE) coverage by municipality

As of 31 October 2014

	Target Population	Participants		Proportion (%)	Number and proportion of participants by age group				Participants living outside Fukushima	Proportion (%)
	a	b	Screened outside Fukushima 3)	b/a	2-7	8-12	13-17	18-22	c	c/b

Screening coverage by municipality in FY 2014

Kawamata	2,461	1,664	33	67.6	392 23.6	569 34.2	582 35.0	121 7.3	44	2.6
Namie	3,771	1,829	522	48.5	489 26.7	539 29.5	567 31.0	234 12.8	582	31.8
Iitate	1,123	682	26	60.7	163 23.9	257 37.7	227 33.3	35 5.1	29	4.3
Minami-soma	12,981	7,375	1,390	56.8	1,902 25.8	2,578 35.0	2,276 30.9	619 8.4	1657	22.5
Date	11,737	8,592	247	73.2	2,132 24.8	2,706 31.5	2,918 34.0	836 9.7	233	2.7
Tamura	7,321	4,031	109	55.1	1,015 25.2	1,582 39.2	1,188 29.5	246 6.1	102	2.5
Hirono	1,108	485	87	43.8	139 28.7	156 32.2	135 27.8	55 11.3	83	17.1
Naraha	1,488	703	107	47.2	196 27.9	215 30.6	213 30.3	79 11.2	114	16.2
Tomioka	3,101	1,184	310	38.2	330 27.9	330 27.9	347 29.3	177 14.9	350	29.6
Kawauchi	360	146	14	40.6	41 28.1	57 39.0	37 25.3	11 7.5	16	11.0
Okuma	2,498	1,224	304	49.0	411 33.6	386 31.5	313 25.6	114 9.3	332	27.1
Futaba	1,258	433	187	34.4	149 34.4	139 32.1	101 23.3	44 10.2	200	46.2
Katsurao	240	90	13	37.5	25 27.8	34 37.8	23 25.6	8 8.9	12	13.3
Fukushima	55,732	39,568	1,586	71.0	9,694 24.5	12,306 31.1	12,921 32.7	4,647 11.7	2,020	5.1
Nihonmatsu	10,595	7,196	74	67.9	1,714 23.8	2,378 33.0	2,559 35.6	545 7.6	93	1.3
Motomiya	6,342	4,028	36	63.5	1,074 26.7	1,421 35.3	1,239 30.8	294 7.3	52	1.3
Otama	1,684	1,131	3	67.2	325 28.7	391 34.6	326 28.8	89 7.9	4	0.4
Koriyama	66,204	509	4	0.8	71 13.9	105 20.6	275 54.0	58 11.4	4	0.8
Kori	2,136	332	3	15.5	12 3.6	21 6.3	269 81.0	30 9.0	3	0.9
Kunimi	1,624	274	0	16.9	5 1.8	22 8.0	219 79.9	28 10.2	0	0.0
Tenei	1,101	7	0	0.6	1 14.3	3 42.9	1 14.3	2 28.6	0	0.0
Shirakawa	12,671	24	0	0.2	8 33.3	4 16.7	10 41.7	2 8.3	0	0.0
Nishigo	4,161	11	1	0.3	0 0.0	3 27.3	6 54.5	2 18.2	1	9.1
Izumizaki	1,337	1	0	0.1	0 0.0	1 100.0	0 0.0	0 0.0	1	100.0
Miharu	3,155	102	1	3.2	9 8.8	28 27.5	61 59.8	4 3.9	1	1.0
Subtotal	216,189	81,621	5,057	37.8	20,297 24.9	26,231 32.1	26,813 32.9	8,280 10.1	5,933	7.3

Screening coverage by municipality in FY 2015

Subtotal	480	480	4	100.0	71 14.8	141 29.4	237 49.4	31 6.5	15	3.1
Total	216,669	82,101	5,061	37.9	20,368 24.8	26,372 32.1	27,050 32.9	8,311 10.1	5,948	7.2

1) Number of participants. 2) Number of participants in the age group/Number of participants.

3) Number of participants who underwent the test outside Fukushima.

Fractions have been rounded and may not total to 100%. Ages are at the time when the participants underwent the testing.

Appendix 2

Thyroid Ultrasound Examination (TUE) coverage by prefecture

As of 31 October 2014

Prefecture	Number of test venues	Participants	Prefecture	Number of test venues	Participants	Prefecture	Number of test venues	Participants
Hokkaido	4	92	Fukui	1	8	Hiroshima	1	4
Aomori	1	58	Yamanashi	1	76	Yamaguchi	1	8
Iwate	3	105	Nagano	2	29	Tokushima	1	4
Miyagi	2	1,215	Gifu	1	13	Kagawa	1	7
Akita	1	89	Shizuoka	2	61	Ehime	1	1
Yamagata	3	431	Aichi	3	59	Kōchi	1	3
Ibaraki	4	315	Mie	1	11	Fukuoka	2	28
Tochigi	5	325	Shiga	1	2	Saga	1	10
Gunma	1	90	Kyōto	3	20	Nagasaki	2	10
Saitama	1	154	Ōsaka	6	50	Kumamoto	1	2
Chiba	3	212	Hyōgo	1	38	Ōita	1	17
Tōkyō	12	579	Nara	1	9	Miyazaki	1	15
Kanagawa	4	356	Wakayama	1	2	Kagoshima	1	12
Niigata	1	467	Tottori	1	7	Okinawa	1	11
Toyama	1	5	Shimane	1	3			
Ishikawa	1	29	Okayama	3	19			
						Total	92	5,061

Participants underwent testing at venues outside Fukushima carried out either by Fukushima Medical University staff (once in Niigata, Kanagawa, and Yamagata respectively) or by local specialists.

Appendix 3

Results of primary examination by municipality

As of 31 October 2014

	Participants a	Number confirmed b Proportion (%) b/a (%)	Number by test results				Nodules		Cysts	
			Proportion (%)				Proportion (%)		Proportion (%)	
			A		B	C	≥5.1mm	≤5.0mm	≥20.1mm	≤20.0mm
			A1	A2						

Screening coverage by municipality in FY 2014

Kawamata	1,664	1,535	685	831	19	0	18	11	1	839
		92.2	44.6	54.1	1.2	0.0	1.2	0.7	0.1	54.7
Nanie	1,829	1,570	662	891	17	0	17	9	0	899
		85.8	42.2	56.8	1.1	0.0	1.1	0.6	0.0	57.3
Iitate	682	625	297	318	10	0	10	2	0	320
		91.6	47.5	50.9	1.6	0.0	1.6	0.3	0.0	51.2
Minami-soma	7,375	7,200	3,089	4,056	55	0	55	49	0	4,071
		97.6	42.9	56.3	0.8	0.0	0.8	0.7	0.0	56.5
Date	8,592	7,923	3,424	4,434	65	0	65	55	0	4,457
		92.2	43.2	56.0	0.8	0.0	0.8	0.7	0.0	56.3
Tamura	4,031	4,007	1,646	2,328	33	0	33	22	0	2,340
		99.4	41.1	58.1	0.8	0.0	0.8	0.5	0.0	58.4
Hirono	485	478	209	262	7	0	7	5	0	261
		98.6	43.7	54.8	1.5	0.0	1.5	1.0	0.0	54.6
Naraha	703	687	290	393	4	0	4	6	0	393
		97.7	42.2	57.2	0.6	0.0	0.6	0.9	0.0	57.2
Tomioka	1,184	1,120	486	621	13	0	13	9	0	625
		94.6	43.4	55.4	1.2	0.0	1.2	0.8	0.0	55.8
Kawauchi	146	145	44	101	0	0	0	1	0	101
		99.3	30.3	69.7	0.0	0.0	0.0	0.7	0.0	69.7
Okuma	1,224	1,196	520	670	6	0	6	11	0	669
		97.7	43.5	56.0	0.5	0.0	0.5	0.9	0.0	55.9
Futaba	433	407	185	220	2	0	2	3	0	220
		94.0	45.5	54.1	0.5	0.0	0.5	0.7	0.0	54.1
Katsurao	90	88	49	38	1	0	1	0	0	39
		97.8	55.7	43.2	1.1	0.0	1.1	0.0	0.0	44.3
Fukushima	39,568	32,090	13,431	18,445	214	0	213	168	0	18,521
		81.1	41.9	57.5	0.7	0.0	0.7	0.5	0.0	57.7
Nihonmatsu	7,196	320	117	198	5	0	5	3	0	199
		4.4	36.6	61.9	1.6	0.0	1.6	0.9	0.0	62.2
Motomiya	4,028	51	21	30	0	0	0	0	0	30
		1.3	41.2	58.8	0.0	0.0	0.0	0.0	0.0	58.8
Otama	1,131	13	5	8	0	0	0	0	0	8
		1.1	38.5	61.5	0.0	0.0	0.0	0.0	0.0	61.5
Koriyama	509	192	81	111	0	0	0	2	0	111
		37.7	42.2	57.8	0.0	0.0	0.0	1.0	0.0	57.8
Kori	332	195	80	115	0	0	0	1	0	115
		58.7	41.0	59.0	0.0	0.0	0.0	0.5	0.0	59.0
Kunimi	274	144	47	96	1	0	1	1	0	96
		52.6	32.6	66.7	0.7	0.0	0.7	0.7	0.0	66.7
Tenei	7	3	1	2	0	0	0	0	0	2
		42.9	33.3	66.7	0.0	0.0	0.0	0.0	0.0	66.7
Shirakawa	24	15	10	5	0	0	0	0	0	5
		62.5	66.7	33.3	0.0	0.0	0.0	0.0	0.0	33.3
Nishigo	11	5	1	4	0	0	0	0	0	4
		45.5	20.0	80.0	0.0	0.0	0.0	0.0	0.0	80.0
Izumizaki	1	1	0	1	0	0	0	0	0	1
		100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Miharu	102	100	38	59	3	0	3	0	0	62
		98.0	38.0	59.0	3.0	0.0	3.0	0.0	0.0	62.0
Subtotal	81,621	60,110	25,418	34,237	455	0	453	358	1	34,388
		73.6	42.3	57.0	0.8	0.0	0.8	0.6	0.0	57.2

Screening coverage by municipality in FY 2015

Subtotal	480	395	145	248	2	0	2	2	0	247
		82.3	36.7	62.8	0.5	0.0	0.5	0.5	0.0	62.5
Total	82,101	60,505	25,563	34,485	457	0	455	360	1	34,635
		73.7	42.2	57.0	0.8	0.0	0.8	0.6	0.0	57.2

Fractions have been rounded and may not total to 100%.

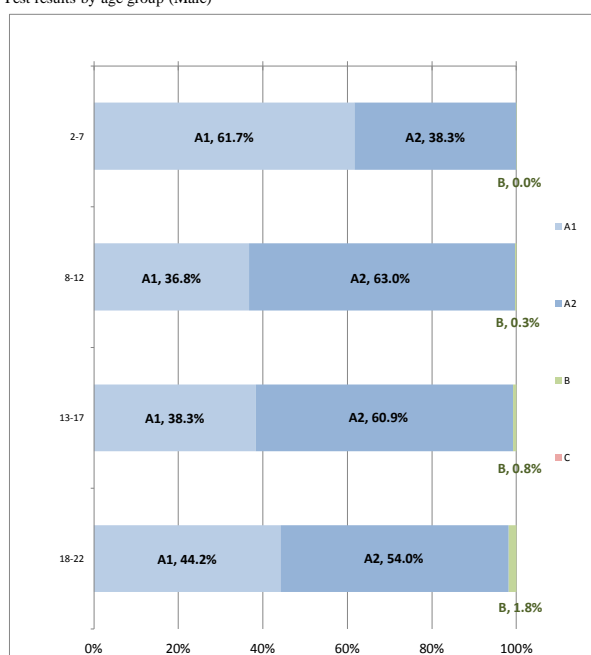
Appendix 4

1. Thyroid Ultrasound Examination results by age and sex

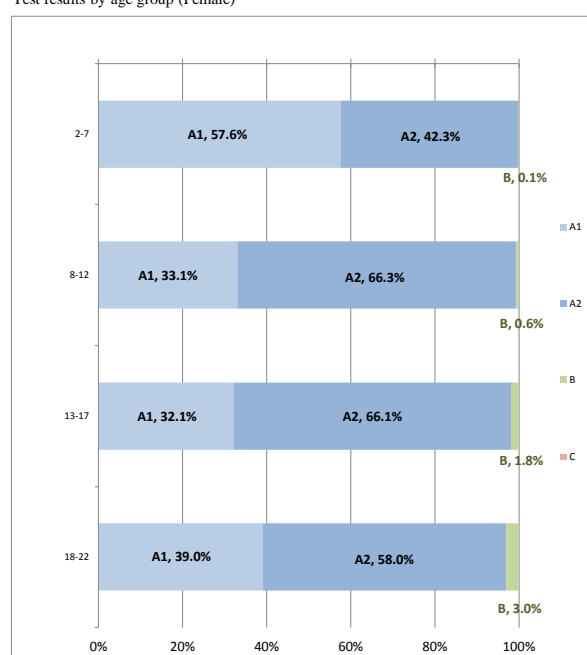
As of 31 October 2014

Ages	A						B			C			Total		
	A1			A2			Male	Female	Total	Male	Female	Total	Male	Female	Total
	Male	Female	Total	Male	Female	Total									
2-7	5,100	4,533	9,633	3,169	3,333	6,502	3	7	10	0	0	0	8,272	7,873	16,145
8-12	4,048	3,446	7,494	6,931	6,913	13,844	31	61	92	0	0	0	11,010	10,420	21,430
13-17	3,518	2,663	6,181	5,595	5,476	11,071	75	146	221	0	0	0	9,188	8,285	17,473
18-22	1,081	1,174	2,255	1,322	1,746	3,068	43	91	134	0	0	0	2,446	3,011	5,457
Total	13,747	11,816	25,563	17,017	17,468	34,485	152	305	457	0	0	0	30,916	29,589	60,505

Test results by age group (Male)



Test results by age group (Female)



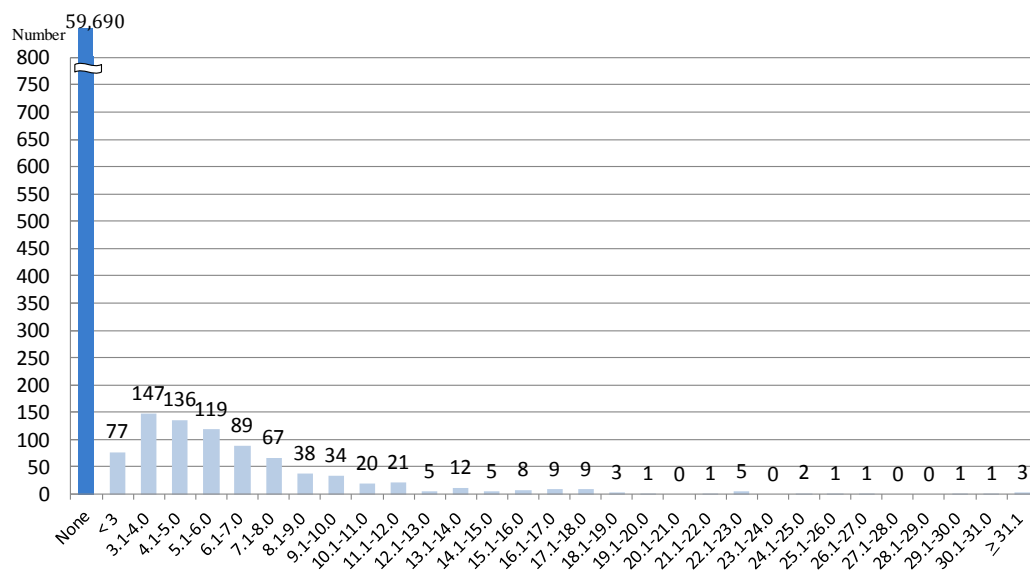
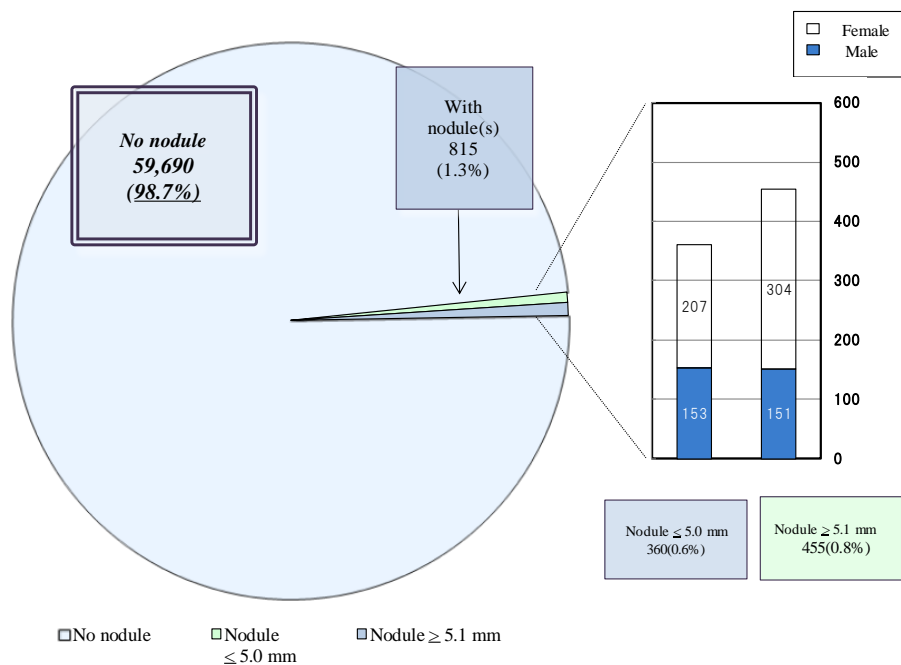
Percentages have been rounded and may not total to 100%.

Ages are at the time when the participants underwent the testing.

2. Nodule size

As of 31 October 2014

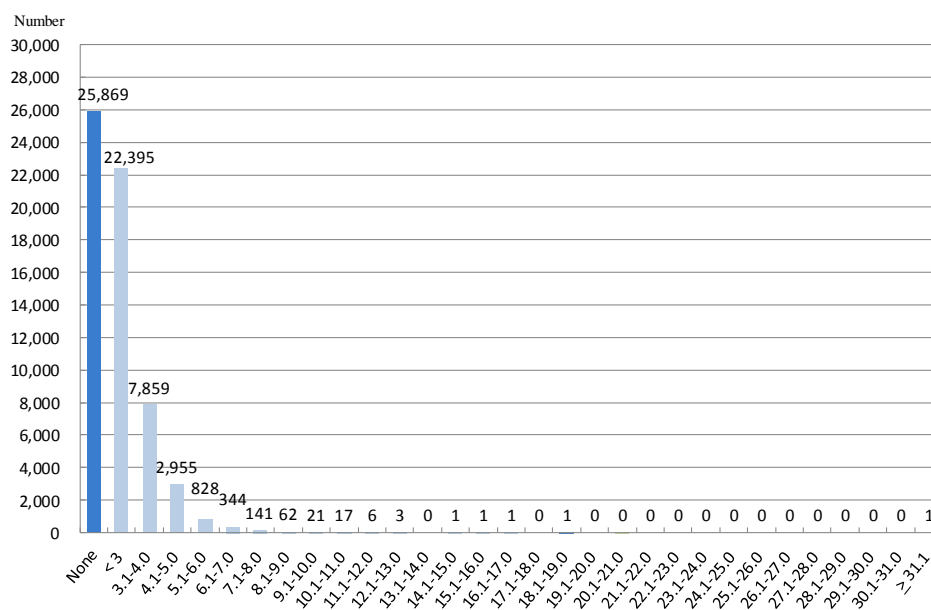
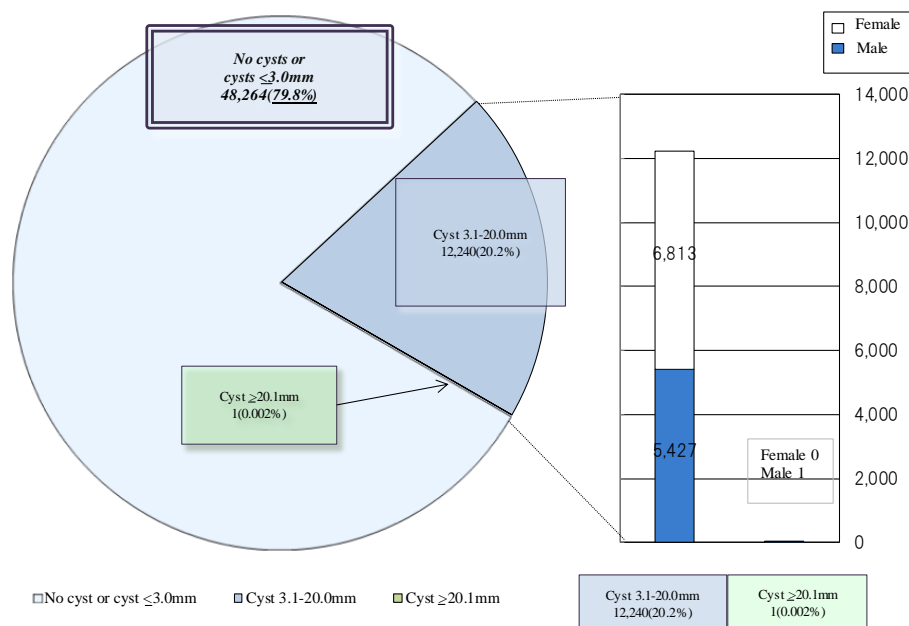
Nodule size	Total	Gender		Test result	Proportion
		Male	Female		
None	59,690	30,612	29,078	A1	98.7%
≤ 3.0 mm	77	36	41	A2	0.6%
3.1-5.0 mm	283	117	166		
5.1-10.0 mm	347	116	231	B	0.8%
10.1-15.0 mm	63	22	41		
15.1-20.0 mm	30	11	19		
20.1-25.0 mm	8	2	6		
≥ 25.1 mm	7	0	7		
Total	60,505	30,916	29,589		



3. Cyst size

As of 31 October 2014

Cyst size	Total	Male	Female	Class	%
None	25,869	13,855	12,014	A1	79.8%
≤ 3.0 mm	22,395	11,633	10,762	A2	
3.1-5.0 mm	10,814	4,919	5,895		
5.1-10.0 mm	1,396	500	896		
10.1-15.0 mm	27	6	21		
15.1-20.0 mm	3	2	1		
20.1-25.0 mm	0	0	0	B	20.2%
≥ 25.1 mm	1	1	0		
Total	60,505	30,916	29,589		



Appendix 5

Confirmatory test results by municipality

[illegible]

As of 31 October 2014

As of 31 October 2011				
Number of confirmed results				
Total	Next screening advised		Follow-up advised	
			Aspiration biopsy cytology	
	h	A1 i		A2 j	k	l
Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)

Screening coverage by municipality in FY 2014

Kawamata	1,664	19	14	0	3	9	2
		1.1	73.7	0.0	21.4	64.3	14.3
Nanie	1,829	17	10	0	0	3	7
		0.9	58.8	0.0	0.0	30.0	70.0
Iitate	682	10	6	0	2	3	1
		1.5	60.0	0.0	33.3	50.0	16.7
Minami-soma	7,375	55	37	1	7	22	7
		0.7	67.3	2.7	18.9	59.5	18.9
Date	8,592	65	50	1	17	29	3
		0.8	76.9	2.0	34.0	58.0	6.0
Tamura	4,031	33	21	1	2	15	3
		0.8	63.6	4.8	9.5	71.4	14.3
Hirono	485	7	6	0	1	3	2
		1.4	85.7	0.0	16.7	50.0	33.3
Naraha	703	4	3	0	0	0	3
		0.6	75.0	0.0	0.0	0.0	100.0
Tomioka	1,184	13	8	0	1	2	5
		1.1	61.5	0.0	12.5	25.0	62.5
Kawauchi	146	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
Okuma	1,224	6	5	0	0	3	2
		0.5	83.3	0.0	0.0	60.0	40.0
Futaba	433	2	0	0	0	0	0
		0.5	0.0	0.0	0.0	0.0	0.0
Katsurao	90	1	1	0	1	0	0
		1.1	100.0	0.0	100.0	0.0	0.0
Fukushima	39,568	214	81	2	21	49	9
		0.5	37.9	2.5	25.9	60.5	11.1
Nihonmatsu	7,196	5	2	0	0	1	1
		0.1	40.0	0.0	0.0	50.0	50.0
Motomiya	4,028	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	10.0
Otama	1,131	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
Koriyama	509	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
Kori	332	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
Kunimi	274	1	0	0	0	0	0
		0.4	0.0	0.0	0.0	0.0	0.0
Tenei	7	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
Shirakawa	24	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
Nishigo	11	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
Izumizaki	1	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
Miharu	102	3	2	0	0	2	0
		2.9	66.7	0.0	0.0	100.0	0.0
Subtotal	81,621	455	246	5	55	141	45
		0.6	54.1	2.0	22.4	57.3	18.3

Screening coverage by municipality in FY 2015

Subtotal	480	2	2	0	0	2	0
		0.4	100.0	0.0	0.0	100.0	0.0

[illegible]

0	0	0	0	0
0.0	0.0	0.0	0.0	0.0

Total	82,101	457	248	5	55	143	45	155	9	53	93	11
		0.6	54.3	2.0	22.2	57.7	18.1	62.5	5.8	34.2	60.0	11.8

h) Excluding participants who have not receive the test results.

Ages are at the time when the participants underwent the testing.

Progress Report of the Comprehensive Health Check

Reported on 25 December 2014

1. The implementation status in FY 2013

◆Results of FY 2013

Progress Report of the Comprehensive Health Check for FY 2011 to FY 2013

(Unit: person, percentage)

(Unit: person, percentage)

			FY 2011 (Confirmed report values: Sep 11 th 2012)			FY 2012 (Confirmed report values: Jul 5 th 2013)			FY 2013 (Confirmed report values: Sep 1 st 2014)		
Categories, etc.			Age		Total	Age		Total	Age		Total
			≤15	≥16	All ages	≤15	≥16	All ages	≤15	≥16	All ages
Number of participants			27,819	182,370	210,189	27,077	184,910	211,987	26,474	186,970	213,444
Number of examinees (people)	≤15 years old	A	15,002	—	15,002	9,534	—	9,534	8,432	—	8,432
		B	2,949	—	2,949	2,283	—	2,283	1,822	—	1,822
		C	17	—	17	37	—	37	6	—	6
		D	17,934	—	17,934	11,780	—	11,780	10,248	—	10,248
	≥16 years old	E	—	8,798	8,798	—	23,907	23,907	—	25,604	25,604
		F	—	—	—	—	6,692	6,692	—	5,806	5,806
		G	—	41,949	41,949	—	10,603	10,603	—	6,767	6,767
		H	—	3,815	3,815	—	3,055	3,055	—	3,205	3,205
		I	—	2,045	2,045	—	3,206	3,206	—	2,017	2,017
		J	—	208	208	—	454	454	—	359	359
		K	—	56,399	56,399	—	47,009	47,009	—	43,040	43,040
		L	17,934	56,399	74,333	11,780	47,009	58,789	10,248	43,040	53,288
The medical examination consultation rate			64.5%	30.9%	35.4%	43.5%	25.4%	27.7%	38.7%	23.0%	25.0%

<Chart>

A) Children's health examination within the prefecture

B) Children's health examination outside the prefecture

C) Number of overlapping examinees within and outside the prefecture

D) Subtotal (excluding the number of overlapping examinees)

E) Health Check conducted by municipalities within the prefecture

F) Individual examinations conducted within the prefecture

G) Group examinations conducted within the prefecture

H) Individual examinations conducted outside the prefecture

I)

Other (within the prefecture (cases where the municipality delegated examination to medical institutions or county/city medical associations))

Other (outside the prefecture (cases where the municipality delegated examination to examination agencies))

J) Number of overlapping examinees within and outside the prefecture

K) Subtotal (Excluding the number of overlapping examinees)

L) Total (Excluding the number of overlapping examinees)

【People residing within the prefecture】

For those aged 16 and older, items were added to specific health examinations held by municipalities so that the existing health examination and Comprehensive Health Check for the prefectural health survey may be conducted simultaneously. Furthermore, group health examinations were conducted 69 times at around 24 locations within the prefecture for those who could not undergo the check-ups. Also, around the same time period as the group health examinations, 510 facilities cooperated with us in order to set up a system that will allow medical facilities within the prefecture to conduct health examinations.

For children 15 and under, we requested the cooperation of pediatricians so that children's needs could be accommodated, and health examinations were conducted at 104 medical institutions within the prefecture.

【People evacuating outside the prefecture】

Taking into account the fact that people had evacuated to various locations in the country, health examinations were conducted with the cooperation of a total of 951 medical institutions outside the prefecture. The breakdown of institutions that cooperated is as follows: 453 medical institutions for those 16 and older; and 133 medical institutions that include a pediatric department for those 15 and under as was the case within the prefecture. Furthermore, we received cooperation from 365 medical institutions that can accommodate both age groups.

◆The medical examination consultation rate

The medical examination consultation rate for those 16 and older in FY 2013 was 23.0%. Compared to 30.9% in FY 2011 and 25.4% in FY 2012, it has decreased by 7.9 points and 2.4 points, respectively. Similarly, the medical examination consultation rate for those 15 and under was 38.7%, which has decreased by 25.8 points and 4.8 points, respectively, compared to 64.5% in FY 2011 and 43.5% in FY 2012.

2. Implementation status of FY 2014

Group: 214,211 individuals

(25,883 individuals aged 15 and under, 188,328 individuals aged 16 and older)

		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Within the prefecture	≤15 years old				<div>Children's health examinations in designated medical institutions within the prefecture</div> <div>5504 examinees as of the end of October</div>										
	≥16 years old		<div>Additional check-ups in specific health examinations held by municipalities *</div> <div>21,943 examinees as of the end of October</div>									<div>Group health examinations</div> <div>Individual health examinations at medical institutions</div>			
Outside the prefecture	≤15 years old				<div>Children's health examinations at designated medical institutions outside the prefecture</div>										
	≥16 years old				<div>Health examinations at designated medical organizations outside the prefecture</div>										

* Iitate (May 16-), Tamura (May 28-), Katsurao (Jun 7, 8), Kawamata (Jun 19-), Minamisoma (Jul 7-), Hirono (Jul 15-), Kawauchi (Sep 1-), Futaba (Sep 6-), Namie (Sep 20-), Naraha (Sep 26-), Tomioka (Sep 29-), Okuma (Oct 20-)

◆Implementation status for FY 2014

【People residing within the prefecture】

For children 15 and under, the health exams are being conducted during an approximately 6 month period from Jul to Dec 2014 as was the case in the previous year (Number of cooperating medical institutions: 101 facilities). The number of examinees at this point is 5,504.

For those 16 and older, items are added to specific health check-ups held by municipalities as before, so that examinations can be simultaneously conducted in 12 municipalities except Date city. Furthermore, we plan to conduct group health examinations and individual health examinations at medical institutions. The number of examinees who are 16 and older is 21,943 at this point.

【People who had evacuated outside the prefecture】

In addition to increasing the number of medical institutions that can conduct health examinations nationwide, we have sequentially sent out notices from mid-July in order to ensure early implementation starting from August. Furthermore, we will make efforts to gain cooperation from medical institutions located near regions where a significant number of people had evacuated.

FY 2011-2013 Comprehensive Health Check of Fukushima Health Management Survey

Consultation results basic statistics chart by health examination item

Reported on 25 December 2014

Revised on 2 February 2015

The results of FY 2011 and FY 2012 are the corrected version of the Proceedings of the 13th Prefectural Oversight Committee Meeting for Fukushima Health Management Survey.

【Group】

Residents of nationally designated evacuation zones as of 2011 and those who were recommended to have follow-up based on the results of the Basic Survey.

【Evacuation area, etc.】

Whole area of Tamura city, Minami-soma city, Kawamata town, Hirono town, Naraha town, Tomioka town, Kawauchi village, Okuma town, Futaba town, Namie town, Katsurao village, Iitate village and parts of Date City (belonging to designated evacuation areas)

【Examination item】

Age Division	Examination Item
0-6 years old (Infant before entering school)	Height, weight, CBC (Number of red blood cells, hematocrit, hemoglobin, platelet count, number of white blood cells, differential white blood count.)
7-15 years old (From 1 st to 9 th grade)	Height, weight, blood pressure, CBC (Number of red blood cells, hematocrit, hemoglobin, platelet count, number of white blood cells, differential white blood count.) [Additional items on request] Blood biochemistry (AST, ALT, γ GT, TG, HDL-C, LDL-C, HbA1c, plasma glucose, serum creatinine, uric acid)
16 years old and above	Height, weight, BMI (abdominal circumference), blood pressure <u>CBC (Number of red blood cells, hematocrit, hemoglobin, platelet count, number of white blood cells, differential white blood count.)</u> Urinary test (urinary sugar, urine protein, urine occult blood) Blood biochemistry (AST, ALT, γ GT, TG, HDL-C, LDL-C, HbA1c, plasma glucose, <u>serum creatinine, estimated</u>

	<u>glomerular filtration rate [eGFR], uric acid)</u> The underlined values are not routinely measured during regular health exams.
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※Medical examination results are divided into general age categories and, due to differences in medical checkup items, also divided into 5 age groups: 0-6 years old, 7-15 years old, 16-39 years old, 40-64 years old and 65 years old and above. This is further paired with 2 categories resulting in 10 categories, and the results were compiled for each medical checkup item.

※Individuals who received examination at least twice in the same year (repeated medical examinee) have been included in the total results.

※Symbols in the tables are represented in the same way as in Vital Statistics of the Ministry of Health, Labour and Welfare.

When there are no figures (-)

When there are no items (no medical checkup items due to age category) (•)

When it is not appropriate to express the total (...)

When the percentage is small (less than 0.05) (0.0%)

※A statistical analysis has not been conducted.

※There are no significant changes in the health examination targets of FY 2011-2013. Since the medical examinees differ, the time of receiving the medical examination and the medical organizations differ. Due to such modifying factors, this is not a strict comparison.

Height

FY 2011

Height (cm) (overall)			
Age	Number of examinees	Average age	Average height
0-6	6,461	3.6	98.5
7-15	11,479	11.0	144.1
16-39	14,762	28.1	163.2
40-64	23,637	54.0	160.0
65-	16,718	73.7	153.5

Height (cm) (male)					
Age	Number of examinees	Average age	Average height	150 cm and below	170 cm and above
0-6	3,271	3.6	99.2	...	...
7-15	5,766	10.9	145.1	...	...
16-39	5,963	27.7	170.9	0.2%	57.1%
40-64	9,560	54.5	167.5	0.4%	34.2%
65-	7,498	73.4	160.8	3.9%	6.7%

Height (cm) (female)					
Age	Number of examinees	Average age	Average height	140 cm and below	160 cm and above
0-6	3,190	3.6	97.7	...	...
7-15	5,713	11.0	143.0	...	...
16-39	8,799	28.3	158.0	0.1%	36.4%
40-64	14,077	53.7	154.9	0.4%	18.4%
65-	9,220	73.8	147.6	10.7%	1.6%

FY 2012

Height (cm) (overall)			
Age	Number of examinees	Average age	Average height
0-6	4,364	3.6	96.3
7-15	7,437	10.9	142.3
16-39	8,480	28.6	163.3
40-64	19,552	55.0	159.9
65-	18,632	73.5	154.0

Height (cm) (male)					
Age	Number of examinees	Average age	Average height	150 cm and below	170 cm and above
0-6	2,174	3.6	97.0	...	...
7-15	3,810	10.8	143.1	...	...
16-39	3,230	27.9	171.3	0.3%	59.2%
40-64	7,716	55.4	167.5	0.3%	34.6%
65-	8,475	73.4	161.1	3.9%	7.6%

Height (cm) (female)					
Age	Number of examinees	Average age	Average height	140 cm and below	160 cm and above
0-6	2,190	3.6	95.5	...	...
7-15	3,627	10.9	141.4	...	...
16-39	5,250	29.1	158.3	0.1%	38.3%
40-64	11,836	54.6	154.9	0.5%	18.5%
65-	10,157	73.6	148.0	9.5%	1.7%

Height

FY 2013

Height (cm) (overall)			
Age	Number of examinees	Average age	Average height
0-6	3,801	3.7	96.5
7-15	6,429	10.8	141.8
16-39	6,535	29.0	163.1
40-64	16,922	55.3	159.8
65-	18,960	73.5	154.3

Height (cm) (male)					
Age	Number of examinees	Average age	Average height	150 cm and below	170 cm and above
0-6	1,950	3.7	97.0	...	...
7-15	3,291	10.9	143.0	...	...
16-39	2,480	28.3	171.1	0.4%	58.8%
40-64	6,511	55.7	167.6	0.3%	34.8%
65-	8,636	73.4	161.4	3.4%	7.9%

Height (cm) (female)					
Age	Number of examinees	Average age	Average height	140 cm and below	160 cm and above
0-6	1,851	3.7	95.9	...	...
7-15	3,138	10.8	140.6	...	...
16-39	4,055	29.5	158.2	0.2%	37.2%
40-64	10,411	55.0	155.0	0.5%	19.3%
65-	10,324	73.5	148.4	8.6%	2.1%

The average height of FY 2011 is 98.5 cm for ages 0-6, 144.1 cm for ages 7-15, 163.2 cm for ages 16-39, 160.0 cm for ages 40-64, and 153.5 cm for ages 65 and above. Further, the average height for males is 99.2 cm for ages 0-6, 145.1 cm for ages 7-15, 170.9 cm for ages 16-39, 167.5 cm for ages 40-64, and 160.8 cm for ages 65 and above. The average height for females is 97.7 cm for ages 0-6, 143.0 cm for ages 7-15, 158.0 cm for ages 16-39, 154.9 cm for ages 40-64, and 147.6 cm for ages 65 and above. There was no year-to-year difference of average age in each age group until FY 2013, but there has been a difference in average height for age groups 0-6 and 7-15. However, since there are modifying factors such as different times of conducting the medical exam, it is not a strict comparison. There is no change in the average height for each age group 16 and above.

※ 〈Reference〉 Children's medical exam period (0-15 year olds)

FY 2011 : Jan-Mar 2012

FY 2012 : Jul-Dec 2012

FY 2013 : Jul-Dec 2013

Weight

FY 2011

Weight (kg) (overall)			
Age	Number of examinees	Average age	Average weight
0-6	6,462	3.6	16.1
7-15	11,481	11.0	40.2
16-39	14,761	28.1	60.5
40-64	23,637	54.0	61.2
65-	16,722	73.7	56.8

Weight (kg) (male)					
Age	Number of examinees	Average age	Average weight	50 kg and below	70 kg and above
0-6	3,271	3.6	16.4	...	...
7-15	5,768	10.9	41.0	...	...
16-39	5,963	27.7	68.8	3.8%	39.8%
40-64	9,560	54.5	69.0	1.9%	42.6%
65-	7,499	73.4	62.7	8.1%	20.2%

Weight (kg) (female)					
Age	Number of examinees	Average age	Average weight	45 kg and below	65 kg and above
0-6	3,191	3.6	15.8	...	...
7-15	5,713	11.0	39.5	...	...
16-39	8,798	28.3	54.8	13.8%	14.1%
40-64	14,077	53.7	56.0	9.1%	15.1%
65-	9,223	73.8	52.1	19.9%	6.9%

FY 2012

Weight (kg) (overall)			
Age	Number of examinees	Average age	Average weight
0-6	4,365	3.6	15.1
7-15	7,437	10.9	38.3
16-39	8,478	28.6	60.3
40-64	19,553	55.0	61.1
65-	18,683	73.5	56.9

Weight (kg) (male)					
Age	Number of examinees	Average age	Average weight	50 kg and below	70 kg and above
0-6	2,174	3.6	15.4	...	...
7-15	3,810	10.8	39.0	...	...
16-39	3,230	27.9	69.2	4.4%	40.9%
40-64	7,717	55.4	68.8	2.2%	41.3%
65-	8,479	73.4	62.5	8.5%	20.1%

Weight (kg) (female)					
Age	Number of examinees	Average age	Average weight	45 kg and below	65 kg and above
0-6	2,191	3.6	14.8	...	...
7-15	3,627	10.9	37.5	...	...
16-39	5,248	29.1	54.9	14.0%	14.3%
40-64	11,836	54.6	56.1	9.4%	15.9%
65-	10,159	73.6	52.2	20.4%	7.3%

Weight

FY 2013

Weight (kg) (overall)			
Age	Number of examinees	Average age	Average weight
0-6	3,802	3.7	15.2
7-15	6,429	10.8	37.9
16-39	6,534	29.0	60.2
40-64	16,921	55.3	61.0
65-	18,964	73.5	57.1

Weight (kg) (male)					
Age	Number of examinees	Average age	Average weight	50 kg and below	70 kg and above
0-6	1,951	3.7	15.5	...	...
7-15	3,291	10.9	38.9	...	...
16-39	2,480	28.3	69.0	4.3%	40.6%
40-64	6,511	55.7	69.0	2.1%	42.5%
65-	8,638	73.4	62.7	8.3%	21.0%

Weight (kg) (female)					
Age	Number of examinees	Average age	Average weight	45 kg and below	65 kg and above
0-6	1,851	3.7	14.9	...	...
7-15	3,138	10.8	36.8	...	...
16-39	4,054	29.5	54.9	14.6%	14.5%
40-64	10,410	55.0	56.1	9.6%	16.2%
65-	10,326	73.5	52.4	19.7%	7.6%

The average weight of FY 2011 was 16.1 kg for age group 0-6, 40.2 kg for age group 7-15, 60.5 kg for age group 16-39, 61.2 kg for age group 40-64, and 56.8 kg for age group 65 and above. Furthermore, the average weight for males is 16.4 kg for age group 0-6, 41.0 kg for age group 7-15, 68.8 kg for age group 16-39, 69.0 kg for age group 40-64, and 62.7 kg for age group 65 and above. The prevalence of those weighing 70 kg and above was 39.8% for age group 16-39, 42.6% for age group 40-64, and 20.2% for age group 65 and above. The average weight of women is 15.8 kg for age group 0-6, 39.5 kg for age group 7-15, 54.8 kg for age group 16-39, 56.0 kg for age group 40-64, and 52.1 kg for age group 65 and above. Those weighing 65 kg and above were 14.1% for age group 16-39, 15.1% for age group 40-64, and 6.9% for age group 65 and above. There was no year-to-year difference of average age in each age group until FY 2013, but there was a difference in average weight among age groups 0-6 and 7-15. However, since there are modifying factors such as different medical exam times, it is not a strict comparison. There was a tendency of increase of for each age group 16 and above for males weighing 70 kg and above and females weighing 65 kg and above.

※ 〈Reference〉 Children's medical exam period (0-15 year olds)

FY 2011 : Jan-Mar 2012

FY 2012 : Jul-Dec 2012

FY 2013 : Jul-Dec 2013

BMI

FY 2011

BMI (weight/height ²) (overall)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	14,761	28.1	22.6	8.0%	22.3%
40-64	23,637	54.0	23.8	2.8%	33.7%
65-	16,717	73.7	24.0	2.5%	37.1%

BMI (weight/height ²) (male)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	5,963	27.7	23.5	4.7%	29.8%
40-64	9,560	54.5	24.6	1.1%	41.6%
65-	7,498	73.4	24.2	1.8%	39.1%

BMI (weight/height ²) (female)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	8,798	28.3	21.9	10.2%	17.2%
40-64	14,077	53.7	23.3	4.0%	28.4%
65-	9,219	73.8	23.9	3.1%	35.4%

FY 2012

BMI (weight/height ²) (overall)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	8,478	28.6	22.5	8.9%	22.3%
40-64	19,551	55.0	23.8	2.9%	33.6%
65-	18,632	73.5	23.9	2.8%	35.2%

BMI (weight/height ²) (male)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	3,230	27.9	23.6	5.2%	30.7%
40-64	7,716	55.4	24.5	1.2%	40.3%
65-	8,475	73.4	24.0	2.0%	36.4%

BMI (weight/height ²) (female)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	5,248	29.1	21.9	11.1%	17.1%
40-64	11,835	54.6	23.4	4.1%	29.2%
65-	10,157	73.6	23.8	3.4%	34.3%

BMI

FY 2013

BMI (weight/height ²) (overall)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	6,534	29.0	22.5	9.1%	22.1%
40-64	16,921	55.3	23.8	3.1%	33.5%
65-	18,960	73.5	23.9	2.9%	35.3%

BMI (weight/height ²) (male)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	2,480	28.3	23.5	5.3%	30.0%
40-64	6,511	55.7	24.5	1.2%	40.9%
65-	8,636	73.4	24.0	2.1%	36.3%

BMI (weight/height ²) (female)					
Age	Number of examinees	Average age	Average BMI	Less than 18	25 and above
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	4,054	29.5	21.9	11.3%	17.3%
40-64	10,410	55.0	23.3	4.2%	28.9%
65-	10,324	73.5	23.8	3.5%	34.4%

Overweight individuals with a BMI of 25 kg/m² or above for FY 2011 were 22.3% for age group 16-39 (29.8% for males and 17.2% for females), 33.7% for age group 40-64 (41.6% for males and 28.4% for females), and 37.1% for age group 65 and above (39.1% for males and 35.4% for females). On the other hand, the overweight people of FY 2013 for age groups 16-39, 40-64, and 65 and above were 22.1%, 33.5% and 35.3%, respectively. There had been a slight decrease for those in age group 65 and above, but the prevalence barely changed among overweight individuals of other age groups.

Abdominal circumference (AC)

FY 2011

AC (cm) (overall)			
Age	Number of examinees	Average age	Average AC
0-6	.	.	.
7-15	.	.	.
16-39	2,470	29.7	78.0
40-64	23,601	54.0	83.8
65-	10,264	69.9	85.3

AC (cm) (male)				
Age	Number of examinees	Average age	Average AC	85 cm and above
0-6	.	.	.	.
7-15	.	.	.	.
16-39	867	29.0	82.2	37.3%
40-64	9,546	54.5	86.6	56.0%
65-	4,649	69.8	86.5	58.2%

AC (cm) (female)				
Age	Number of examinees	Average age	Average AC	90 cm and above
0-6	.	.	.	.
7-15	.	.	.	.
16-39	1,603	30.0	75.8	9.5%
40-64	14,055	53.7	81.9	19.5%
65-	5,615	70.1	84.4	26.7%

FY 2012

AC (cm) (overall)			
Age	Number of examinees	Average age	Average AC
0-6	.	.	.
7-15	.	.	.
16-39	1,971	30.0	77.6
40-64	19,506	55.0	84.0
65-	11,859	69.8	85.2

AC (cm) (male)				
Age	Number of examinees	Average age	Average AC	85 cm and above
0-6	.	.	.	.
7-15	.	.	.	.
16-39	732	29.4	81.4	36.3%
40-64	7,704	55.4	86.6	56.2%
65-	5,415	69.7	86.2	56.4%

AC (cm) (female)				
Age	Number of examinees	Average age	Average AC	90 cm and above
0-6	.	.	.	.
7-15	.	.	.	.
16-39	1,239	30.4	75.4	8.6%
40-64	11,802	54.7	82.3	20.8%
65-	6,444	69.9	84.3	26.6%

AC

FY 2013

AC (cm) (overall)			
Age	Number of examinees	Average age	Average AC
0-6	.	.	.
7-15	.	.	.
16-39	1,561	30.0	77.2
40-64	16,904	55.3	83.8
65-	11,958	69.6	85.1

AC (cm) (male)				
Age	Number of examinees	Average age	Average AC	85 cm and above
0-6	.	.	.	.
7-15	.	.	.	.
16-39	584	29.6	80.4	31.7%
40-64	6,504	55.7	86.4	55.6%
65-	5,454	69.5	86.1	55.6%

AC (cm) (female)				
Age	Number of examinees	Average age	Average AC	90 cm and above
0-6	.	.	.	.
7-15	.	.	.	.
16-39	977	30.2	75.2	8.6%
40-64	10,400	55.0	82.1	20.7%
65-	6,504	69.7	84.2	26.9%

The prevalence of AC above diagnostic criteria of metabolic syndrome (85 cm and above for males and 90 cm and above for females) for FY 2011 was: 37.3% for males and 9.5% for females for age group 16-39; 56.0% for males and 19.5% for females for age group 40-64; 58.2% for males and 26.7% for females for age group 65 and above. For FY 2012 these numbers were: 36.3% for males and 8.6% for females for age group 16-39; 56.2% for males and 20.8% for females for age group 40-64; 56.4% for males and 26.6% for females for age group 65 and above. For FY 2013 these numbers were: 31.7% for males and 8.6% for females for age group 16-39; 55.6% for males and 20.7% for females for age group 40-64; and 55.6% for males and 26.9% for females for age group 65 and above. There was almost no change for the prevalence except for males in age group 16-39. For males of age

group 16-39, the prevalence of visceral fat accumulation decreased between the two year period of FY 2011 and 2013.

Systolic blood pressure

FY 2011

Systolic blood pressure (mmHg) (overall)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	11,414	11.0	107.4	0.6%
16-39	14,757	28.1	113.7	3.3%
40-64	23,633	54.0	127.7	22.5%
65-	16,726	73.7	136.6	41.6%

Systolic blood pressure (mmHg) (male)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	5,728	10.9	108.6	0.9%
16-39	5,963	27.7	118.8	5.8%
40-64	9,559	54.5	130.8	27.5%
65-	7,497	73.4	137.2	43.1%

Systolic blood pressure (mmHg) (female)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	5,686	11.0	106.3	0.2%
16-39	8,794	28.3	110.2	1.6%
40-64	14,074	53.7	125.7	19.1%
65-	9,229	73.8	136.1	40.4%

FY 2012

Systolic blood pressure (mmHg) (overall)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	7,379	10.9	105.1	0.2%
16-39	8,480	28.6	112.1	2.7%
40-64	19,551	55.0	125.2	17.5%
65-	18,642	73.5	133.2	32.9%

Systolic blood pressure (mmHg) (male)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	3,778	10.8	106.2	0.4%
16-39	3,230	27.9	117.6	4.9%
40-64	7,716	55.4	128.2	21.5%
65-	8,479	73.4	133.8	34.2%

Systolic blood pressure (mmHg) (female)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	3,601	11.0	104.1	0.1%
16-39	5,250	29.1	108.8	1.3%
40-64	11,835	54.6	123.2	14.9%
65-	10,163	73.6	132.7	31.8%

Systolic blood pressure

FY 2013

Systolic blood pressure (mmHg) (overall)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	6,404	10.8	105.2	0.2%
16-39	6,536	29.0	111.4	2.2%
40-64	16,922	55.3	124.1	15.3%
65-	18,969	73.5	131.2	28.1%

Systolic blood pressure (mmHg) (male)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	3,276	10.9	106.3	0.3%
16-39	2,480	28.3	116.9	4.2%
40-64	6,513	55.7	127.3	19.0%
65-	8,642	73.4	131.7	29.4%

Systolic blood pressure (mmHg) (female)				
Age	Number of examinees	Average age	Average systolic blood pressure	140 mmHg and above
0-6	.	.	.	.
7-15	3,128	10.8	104.1	0.1%
16-39	4,056	29.5	108.1	1.0%
40-64	10,409	55.0	122.1	12.9%
65-	10,327	73.5	130.7	27.0%

Hypertensive individuals with a systolic blood pressure of 140 mmHg or above in FY 2011 were: 3.3% for age group 16-39 (5.8% for males and 1.6% for females); 22.5% for age group 40-64 (27.5% for males and 19.1% for females); and 41.6% for age group 65 and above (43.1% for males and 40.4% for females). This increased with age and for each age group, males outnumbered females. The prevalence of hypertensive individuals gradually decreased for each age group as the group aged for both FY 2012 and FY 2013.

Diastolic blood pressure

FY 2011

Diastolic blood pressure (mmHg) (overall)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	11,411	11.0	62.4	0.6%
16-39	14,757	28.1	69.0	3.7%
40-64	23,633	54.0	78.8	17.0%
65-	16,726	73.7	78.6	15.0%

Diastolic blood pressure (mmHg) (male)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	5,727	10.9	62.6	0.8%
16-39	5,963	27.7	72.3	6.6%
40-64	9,559	54.5	81.8	24.1%
65-	7,497	73.4	79.7	17.9%

Diastolic blood pressure (mmHg) (female)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	5,684	11.0	62.2	0.4%
16-39	8,794	28.3	66.7	1.7%
40-64	14,074	53.7	76.8	12.2%
65-	9,229	73.8	77.7	12.6%

FY 2012

Diastolic blood pressure (mmHg) (overall)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	7,379	10.9	60.9	0.3%
16-39	8,478	28.6	67.6	2.8%
40-64	19,551	55.0	76.9	13.1%
65-	18,642	73.5	76.3	10.5%

Diastolic blood pressure (mmHg) (male)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	3,778	10.8	61.2	0.4%
16-39	3,230	27.9	70.7	4.8%
40-64	7,716	55.4	79.9	18.5%
65-	8,479	73.4	77.4	12.5%

Diastolic blood pressure (mmHg) (female)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	3,601	11.0	60.6	0.3%
16-39	5,248	29.1	65.8	1.5%
40-64	11,835	54.6	75.0	9.6%
65-	10,163	73.6	75.4	8.7%

Diastolic blood pressure

FY 2013

Diastolic blood pressure (mmHg) (overall)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	6,403	10.9	61.3	0.5%
16-39	6,536	29.0	67.5	2.5%
40-64	16,922	55.3	76.2	11.1%
65-	18,969	73.5	75.0	8.1%

Diastolic blood pressure (mmHg) (male)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	3,276	10.9	61.5	0.6%
16-39	2,480	28.3	70.7	4.7%
40-64	6,513	55.7	79.1	16.4%
65-	8,642	73.4	76.0	9.6%

Diastolic blood pressure (mmHg) (female)				
Age	Number of examinees	Average age	Average diastolic blood pressure	90 mmHg and above
0-6	.	.	.	.
7-15	3,127	10.8	61.2	0.4%
16-39	4,056	29.5	65.5	1.2%
40-64	10,409	55.0	74.3	7.7%
65-	10,327	73.5	74.2	6.7%

Hypertensive individuals with a diastolic pressure of 90 mmHg and above for FY 2011 were: 3.7% for age group 16-39 (6.6% for males and 1.7% for females); 17.0% for age group 40-64 (24.1% for males and 12.2% for females); 15.0% for age group 65 and above (17.9% for males and 12.6% for females). This is most common among age groups 40-64, and males were more common than females for each age group. Moreover the prevalence of hypertensive individuals gradually decreased among both males and females with age for all age groups for FY 2012 and FY 2013.

Urinary sugar

FY 2011

Urinary sugar (overall)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	14,642	28.1	0.7%
40-64	23,578	54.1	2.7%
65-	16,678	73.7	3.2%

Urinary sugar (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	5,963	27.7	1.1%
40-64	9,558	54.5	4.9%
65-	7,486	73.4	5.0%

Urinary sugar (female)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	8,679	28.4	0.5%
40-64	14,020	53.7	1.3%
65-	9,192	73.8	1.7%

FY 2012

Urinary sugar (overall)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	8,400	28.6	0.7%
40-64	19,514	55.0	2.2%
65-	18,606	73.5	2.3%

Urinary sugar (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	3,228	27.9	1.0%
40-64	7,709	55.4	4.1%
65-	8,463	73.4	3.7%

Urinary sugar (female)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	5,172	29.1	0.5%
40-64	11,805	54.7	1.0%
65-	10,143	73.6	1.1%

Urinary sugar

FY 2013

Urinary sugar (overall)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	6,489	29.0	0.7%
40-64	16,879	55.3	1.9%
65-	18,863	73.4	2.0%

Urinary sugar (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	2,476	28.3	1.1%
40-64	6,501	55.7	3.6%
65-	8,595	73.4	3.3%

Urinary sugar (female)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	4,013	29.5	0.4%
40-64	10,378	55.0	0.9%
65-	10,268	73.5	1.0%

The prevalence of individuals that test positive for urinary sugar in FY 2011 was: 0.7% for age group 16-39 (1.1% for males and 0.5% for females), 2.7% for age group 40-64 (4.9% for males and 1.3% for females), and 3.2% of age group 65 and above (5.0% for males and 1.7% for females). The prevalence until FY 2013 did not change for those younger than 40 years old, but there was a decrease among individuals 40 years old and above.

Urine protein

FY 2011

Urine protein (overall)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	14,642	28.1	1.1%
40-64	23,577	54.1	1.4%
65-	16,678	73.7	2.4%

Urine protein (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	5,963	27.7	1.1%
40-64	9,557	54.5	2.2%
65-	7,486	73.4	3.5%

Urine protein (female)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	8,679	28.4	1.1%
40-64	14,020	53.7	0.8%
65-	9,192	73.8	1.5%

FY 2012

Urine protein (overall)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	8,400	28.6	2.2%
40-64	19,515	55.0	1.7%
65-	18,606	73.5	2.7%

Urine protein (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	3,228	27.9	2.2%
40-64	7,709	55.4	2.6%
65-	8,463	73.4	3.8%

Urine protein (female)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	5,172	29.1	2.2%
40-64	11,806	54.7	1.1%
65-	10,143	73.6	1.8%

Urine protein

FY 2013

Urine protein (overall)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	6,489	29.0	2.4%
40-64	16,878	55.3	1.6%
65-	18,863	73.4	2.6%

Urine protein (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	2,476	28.3	2.3%
40-64	6,501	55.7	2.4%
65-	8,595	73.4	3.8%

Urine protein (female)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	4,013	29.5	2.5%
40-64	10,377	55.0	1.1%
65-	10,268	73.5	1.6%

The prevalence by age for urine protein (1+) and above for FY 2011 was: 1.1% for age group 16-39; 1.4% for age group 40-64; 2.4% for age group 65 and above. For FY 2012 it was: 2.2% for age group 16-39; 1.7% for age group 40-64; and 2.7% for age group 65 years old and above. For FY 2013 it was: 2.4% for age group 16-39; 1.6% for age group 40-64; and 2.6% for age group 65 years old and above.

Urine occult blood

FY 2011

Urine occult blood (overall)				
Age	Number of examinees	Average age	(1+) and above	(1+) and above and during time periods other than menstruation.
0-6	.	.	.	.
7-15	.	.	.	.
16-39	14,630	28.1	6.9%	3.0%
40-64	23,571	54.1	7.1%	5.6%
65-	16,678	73.7	7.4%	7.4%

Urine occult blood (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	5,960	27.7	1.2%
40-64	9,558	54.5	3.5%
65-	7,486	73.4	5.5%

Urine occult blood (female)				
Age	Number of examinees	Average age	(1+) and above	(1+) and above and during time periods other than menstruation.
0-6	.	.	.	.
7-15	.	.	.	.
16-39	8,670	28.4	10.7%	4.2%
40-64	14,013	53.7	9.6%	7.0%
65-	9,192	73.8	8.9%	8.9%

FY 2012

Urine occult blood (overall)				
Age	Number of examinees	Average age	(1+) and above	(1+) and above and during time periods other than menstruation.
0-6	.	.	.	.
7-15	.	.	.	.
16-39	8,400	28.6	7.2%	3.2%
40-64	19,510	55.0	6.8%	5.5%
65-	18,592	73.5	6.9%	6.9%

Urine occult blood (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	3,228	27.9	1.4%
40-64	7,707	55.4	3.6%
65-	8,459	73.4	4.9%

Urine occult blood (female)				
Age	Number of examinees	Average age	(1+) and above	(1+) and above and during time periods other than menstruation.
0-6	.	.	.	.
7-15	.	.	.	.
16-39	5,172	29.1	10.9%	4.2%
40-64	11,803	54.7	8.9%	6.8%
65-	10,133	73.6	8.5%	8.5%

Urine occult blood

FY 2013

Urine occult blood (overall)				
Age	Number of examinees	Average age	(1+) and above	(1+) and above and during time periods other than menstruation.
0-6	.	.	.	.
7-15	.	.	.	.
16-39	6,488	29.0	7.0%	3.2%
40-64	16,878	55.3	6.8%	5.8%
65-	18,863	73.4	6.4%	6.4%

Urine occult blood (male)			
Age	Number of examinees	Average age	(1+) and above
0-6	.	.	.
7-15	.	.	.
16-39	2,476	28.3	1.4%
40-64	6,501	55.7	3.0%
65-	8,595	73.4	4.5%

Urine occult blood (female)				
Age	Number of examinees	Average age	(1+) and above	(1+) and above and during time periods other than menstruation.
0-6	.	.	.	.
7-15	.	.	.	.
16-39	4,012	29.5	10.4%	4.3%
40-64	10,377	55.0	9.1%	7.5%
65-	10,268	73.5	8.0%	7.9%

The prevalence for each age group in FY 2011 of urine occult blood (1+) and above omitting the time period during menstruation was: 3.0% for age groups 16-39; 5.6% for age groups 40-64; and 7.4% for age groups 65 and above. For FY 2012 the prevalence was: 3.2% for age group 16-39; 5.5% for age group 40-64; and 6.9% for age group 65 and above. For FY 2013 the prevalence was: 3.2% for age group 16-39; 5.8% for age group 40-64; and 6.4% for age group 65 and above.

Serum creatinine

FY 2011

Serum creatinine (mg/dL) (overall)			
Age	Number of examinees	Average age	Average serum creatinine
0-6	.	.	.
7-15	11,100	11.0	0.47
16-39	14,755	28.1	0.70
40-64	23,651	54.0	0.73
65-	16,724	73.7	0.78

Serum creatinine (mg/dL) (male)					
Age	Number of examinees	Average age	Average serum creatinine	1.15 mg/dL and above	1.35 mg/dL and above
0-6	.	.	.	.	.
7-15	5,588	10.9	0.49	0.0%	0.0%
16-39	5,965	27.7	0.83	0.4%	0.1%
40-64	9,562	54.5	0.86	2.4%	0.8%
65-	7,496	73.4	0.91	7.6%	2.5%

Serum creatinine (mg/dL) (female)					
Age	Number of examinees	Average age	Average serum creatinine	0.95 mg/dL and above	1.15 mg/dL and above
0-6	.	.	.	.	.
7-15	5,512	11.0	0.45	-	-
16-39	8,790	28.3	0.62	0.2%	0.0%
40-64	14,089	53.7	0.64	0.8%	0.3%
65-	9,228	73.8	0.69	4.4%	1.3%

FY 2012

Serum creatinine (mg/dL) (overall)			
Age	Number of examinees	Average age	Average serum creatinine
0-6	.	.	.
7-15	7,212	10.9	0.48
16-39	8,478	28.6	0.70
40-64	19,549	55.0	0.73
65-	18,635	73.5	0.79

Serum creatinine (mg/dL) (male)					
Age	Number of examinees	Average age	Average serum creatinine	1.15 mg/dL and above	1.35 mg/dL and above
0-6	.	.	.	.	.
7-15	3,694	10.9	0.49	-	-
16-39	3,230	27.9	0.83	0.4%	0.1%
40-64	7,717	55.4	0.86	2.7%	0.9%
65-	8,475	73.4	0.91	8.3%	2.9%

Serum creatinine (mg/dL) (female)					
Age	Number of examinees	Average age	Average serum creatinine	0.95 mg/dL and above	1.15 mg/dL and above
0-6	.	.	.	.	.
7-15	3,518	11.0	0.46	-	-
16-39	5,248	29.1	0.61	0.1%	-
40-64	11,832	54.6	0.65	0.8%	0.3%
65-	10,160	73.6	0.69	4.5%	1.6%

Serum creatinine

FY 2013

Serum creatinine (mg/dL) (overall)			
Age	Number of examinees	Average age	Average serum creatinine
0-6	.	.	.
7-15	6,095	10.9	0.47
16-39	6,535	29.0	0.70
40-64	16,921	55.3	0.73
65-	18,954	73.5	0.80

Serum creatinine (mg/dL) (male)					
Age	Number of examinees	Average age	Average serum creatinine	1.15 mg/dL and above	1.35 mg/dL and above
0-6	.	.	.	.	.
7-15	3,117	10.9	0.49	-	-
16-39	2,479	28.3	0.83	0.6%	0.2%
40-64	6,510	55.7	0.86	2.4%	0.6%
65-	8,635	73.4	0.91	9.0%	3.2%

Serum creatinine (mg/dL) (female)					
Age	Number of examinees	Average age	Average serum creatinine	0.95 mg/dL and above	1.15 mg/dL and above
0-6	.	.	.	.	.
7-15	2,978	10.9	0.45	-	-
16-39	4,056	29.5	0.62	0.1%	0.0%
40-64	10,411	55.0	0.65	0.9%	0.3%
65-	10,319	73.5	0.70	5.1%	1.5%

The average values of serum creatinine among males in FY 2011 were: 0.83 mg/dL for age group 16-39; 0.86 mg/dL for age group 40-64; and 0.91 mg/dL for age group 65 and above. The values for FY 2012 were: 0.83 mg/dL for age group 16-39; 0.86 mg/dL for age group 40-64; 0.91 mg/dL for age group 65 and above. The values for FY 2013 were 0.83 mg/dL for age group 16-39; 0.86 mg/dL for age group 40-64; 0.91 mg/dL for age group 65 and above.

The average values of serum creatinine among females in FY 2011 were: 0.62 mg/dL for age group 16-39; 0.64 mg/dL for age group 40-64; and 0.69 mg/dL for age group 65 and above. The values for FY 2012 were: 0.61 mg/dL for age group 16-39; 0.65 mg/dL for age group 40-64; and 0.69 mg/dL for age group 65 and above. The values for FY 2013 were: 0.62 mg/dL for age group 16-39; 0.65 mg/dL for age group 40-64; and 0.70mg/dL for age group 65 and above.

The age-specific prevalence of males with 1.35 mg/dL and above serum creatinine in FY 2011 was: 0.1% for age group 16-39; 0.8% for age group 40-64; and 2.5% for age group 65 and above. For FY 2012 the prevalence was: 0.1% for age group 16-39; 0.9% for age group 40-64; and 2.9% for age group 65 and above. For FY 2013 the prevalence was: 0.2% for age group 16-39; 0.6% for age group 40-64; and 3.2% for age group 65 and above.

The age-specific prevalence of females with 1.15 mg/dL and above serum creatinine in FY 2011 was: 0.0% for age group 16-39; 0.3% for age group 40-64; and 1.3% for age group 65 and above. For FY 2012 the prevalence was: not applicable for age groups 16-39; 0.3% for age group 40-64; and 1.6% for age group 65 and above. For FY 2013 the prevalence was: 0.0% for age group 16-39; 0.3% for age group 40-64; and 1.5% for age group 65 and above.

eGFR

FY 2011

eGFR (mL/min/1.73 m ²) (overall)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	14,753	28.1	96.2	0.1%	0.2%
40-64	23,651	54.0	76.9	1.2%	6.6%
65-	16,724	73.7	66.6	9.0%	28.6%

eGFR (mL/min/1.73 m ²) (male)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	5,964	27.7	95.1	0.1%	0.3%
40-64	9,562	54.5	76.2	1.5%	7.7%
65-	7,496	73.4	67.1	8.7%	27.1%

eGFR (mL/min/1.73 m ²) (female)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	8,789	28.3	97.0	0.1%	0.2%
40-64	14,089	53.7	77.3	0.9%	6.0%
65-	9,228	73.8	66.2	9.2%	29.7%

FY 2012

eGFR (mL/min/1.73 m ²) (overall)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	8,478	28.6	96.3	0.1%	0.3%
40-64	19,549	55.0	75.9	1.4%	8.5%
65-	18,635	73.5	66.2	9.6%	30.7%

eGFR (mL/min/1.73 m ²) (male)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	3,230	27.9	95.4	0.1%	0.3%
40-64	7,717	55.4	76.1	1.7%	8.6%
65-	8,475	73.4	66.9	9.3%	28.5%

eGFR (mL/min/1.73 m ²) (female)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	5,248	29.1	96.8	0.0%	0.2%
40-64	11,832	54.6	75.8	1.1%	8.5%
65-	10,160	73.6	65.6	9.9%	32.4%

eGFR

FY 2013

eGFR (mL/min/1.73 m ²) (overall)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	6,535	29.0	95.5	0.1%	0.3%
40-64	16,919	55.3	75.4	1.3%	9.0%
65-	18,954	73.5	65.5	10.5%	32.5%

eGFR (mL/min/1.73 m ²) (male)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	2,479	28.3	95.1	0.2%	0.4%
40-64	6,508	55.7	75.6	1.4%	8.8%
65-	8,635	73.4	66.3	10.2%	30.1%

eGFR (mL/min/1.73 m ²) (female)					
Age	Number of examinees	Average age	Average eGFR	Less than 50 ml/min. /1.73 m ²	Less than 60 ml/min. /1.73 m ²
0-6	.	.	.	.	.
7-15	.	.	.	.	.
16-39	4,056	29.5	95.8	0.1%	0.2%
40-64	10,411	55.0	75.3	1.2%	9.1%
65-	10,319	73.5	64.8	10.8%	34.5%

The average eGFR for FY 2011 were: 96.2 mL/min/1.73 m² for age group 16-39; 76.9 mL/min/1.73 m² for age group 40-64; and 66.6 mL/min/1.73 m² for age group 65 and above. The average eGFR for FY 2012 were: 96.3 mL/min/1.73 m² for age group 16-39; 75.9 mL/min/1.73 m², for age group 40-64; and 66.2 mL/min/1.73 m² for age group 65 and above. The average eGFR for FY 2013 were: 95.5 mL/min/1.73 m² for age group 16-39; 75.4 mL/min/1.73 m² for age group 40-64; and 65.5 mL/min/1.73 m² for age group 65 and above.

The prevalence for each age group that had less than 60 mL/min/1.73 m² eGFR in FY 2011 was: 0.2% for age group 16-39; 6.6% for age group 40-64; and 28.6% for age group 65 and above. The prevalence for FY 2012 was: 0.3% for age group 16-39; 8.5% for age group 40-64; and 30.7% for age group 65 and above. The prevalence for FY 2013 was: 0.3% for age group 16-39; 9.0% for age group 40-64; and 32.5% for age group 65 and above.

Fasting plasma glucose

FY 2011

Fasting plasma glucose (mg/dL) (overall)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	11,063	11.0	88.6	2.4%	0.3%	0.1%
16-39	12,929	28.0	89.0	1.9%	0.8%	0.5%
40-64	21,027	54.1	99.9	15.1%	5.7%	2.5%
65-	14,744	73.6	105.5	26.1%	9.4%	3.1%

Fasting plasma glucose (mg/dL) (male)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	5,569	10.9	89.4	2.4%	0.3%	0.1%
16-39	5,204	27.6	91.1	2.9%	1.2%	0.7%
40-64	8,370	54.5	104.6	22.5%	9.0%	3.8%
65-	6,575	73.4	108.2	31.7%	11.9%	3.8%

Fasting plasma glucose (mg/dL) (female)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	5,494	11.0	87.7	2.3%	0.3%	0.1%
16-39	7,725	28.3	87.6	1.2%	0.5%	0.3%
40-64	12,657	53.8	96.8	10.3%	3.5%	1.7%
65-	8,169	73.7	103.3	21.6%	7.4%	2.5%

Fasting plasma glucose (mg/dL) (overall)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	5,687	11.0	86.3	0.7%	0.1%	0.0%
16-39	7,289	28.6	88.0	1.9%	0.8%	0.5%
40-64	17,040	55.0	98.5	14.2%	5.3%	2.0%
65-	15,855	73.4	102.7	21.8%	7.5%	2.1%

Fasting plasma glucose (mg/dL) (male)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	2,908	11.0	87.1	0.7%	0.0%	0.0%
16-39	2,744	27.8	90.0	2.7%	1.1%	0.7%
40-64	6,639	55.4	103.2	21.5%	8.7%	3.3%
65-	7,189	73.3	105.2	26.7%	9.7%	2.8%

Fasting plasma glucose (mg/dL) (female)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	2,779	11.1	85.4	0.6%	0.1%	-
16-39	4,545	29.2	86.8	1.4%	0.6%	0.5%
40-64	10,401	54.7	95.5	9.5%	3.1%	1.2%
65-	8,666	73.4	100.6	17.8%	5.6%	1.5%

Fasting plasma glucose

FY 2013

Fasting plasma glucose (mg/dL) (overall)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	4,483	11.0	86.7	0.5%	0.0%	0.0%
16-39	5,470	29.0	88.5	1.9%	0.7%	0.5%
40-64	14,749	55.3	98.7	14.6%	5.2%	1.7%
65-	16,158	73.2	102.7	22.4%	7.4%	1.8%

Fasting plasma glucose (mg/dL) (male)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	2,296	11.0	87.6	0.6%	0.0%	0.0%
16-39	2,032	28.1	90.8	3.0%	1.4%	0.9%
40-64	5,562	55.7	103.1	22.1%	8.5%	2.8%
65-	7,363	73.1	105.5	28.0%	9.6%	2.5%

Fasting plasma glucose (mg/dL) (female)						
Age	Number of examinees	Average age	Average fasting plasma glucose	110 mg/dL and above	130 mg/dL and above	160 mg/dL and above
0-6	.	.	.	.	.	.
7-15	2,187	11.0	85.9	0.5%	0.0%	-
16-39	3,438	29.5	87.2	1.3%	0.3%	0.2%
40-64	9,187	55.0	95.9	10.1%	3.2%	1.1%
65-	8,795	73.2	100.4	17.7%	5.5%	1.3%

The prevalence of individuals with impaired glucose tolerance with fasting plasma glucose of 110 mg/dL and above in FY 2011 was: 1.9% (2.9% for males and 1.2% for females) for age group 16-39; 15.1% (22.5% for males and 10.3% for females) for age group 40-64; and 26.1% (31.7% for males and 21.6% for females) for age group 65 and above. The prevalence of individuals until FY 2013 has not changed among those younger than 65, but there has been a decrease among those 65 and above.

The prevalence of individuals with poor blood sugar control at 130 mg/dL and 160 mg/dL

for fasting plasma glucose in FY 2011 was respectively: 0.8% (1.2% for males and 0.5% for females) and 0.5% (0.7% for males and 0.3% for females) for age group 16-39; 5.7% (9.0% for males and 3.5% for females) and 2.5% (3.8% for males and 1.7% for females) for age group 40-64; and 9.4% (11.9% for males and 7.4% for females) and 3.1% (3.8% for males and 2.5% for females) for age group 65 and above. The prevalence of individuals until FY 2013 did not change among those younger than 40, but there was a decrease among those 40 and above.

HbA1c (NGSP)

FY 2011

HbA1c (%) (NGSP) (overall)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	11,084	11.0	5.3	1.0%	0.1%	0.0%
16-39	14,755	28.1	5.1	1.6%	0.7%	0.4%
40-64	23,650	54.0	5.5	11.8%	3.8%	1.8%
65-	16,723	73.7	5.6	18.7%	4.7%	1.8%

HbA1c (%) (NGSP) (male)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	5,578	10.9	5.3	1.2%	0.1%	0.1%
16-39	5,966	27.7	5.1	2.1%	1.0%	0.7%
40-64	9,562	54.5	5.5	16.1%	5.7%	2.6%
65-	7,496	73.4	5.7	22.4%	5.9%	2.2%

HbA1c (%) (NGSP) (female)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	5,506	11.0	5.3	0.9%	0.1%	0.0%
16-39	8,789	28.3	5.1	1.2%	0.5%	0.3%
40-64	14,088	53.7	5.4	8.9%	2.6%	1.2%
65-	9,227	73.8	5.6	15.8%	3.7%	1.4%

FY 2012

HbA1c (%) (NGSP) (overall)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	7,283	10.9	5.3	0.6%	0.1%	0.0%
16-39	8,478	28.6	5.2	2.0%	0.7%	0.5%
40-64	19,552	55.0	5.5	13.2%	3.5%	1.5%
65-	18,638	73.5	5.7	20.3%	3.9%	1.3%

HbA1c (%) (NGSP) (male)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	3,711	10.9	5.3	0.8%	0.1%	0.1%
16-39	3,229	27.9	5.2	2.6%	0.7%	0.5%
40-64	7,717	55.4	5.6	17.2%	5.1%	2.3%
65-	8,476	73.4	5.7	22.9%	5.1%	1.6%

HbA1c (%) (NGSP) (female)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	3,527	11.0	5.3	0.5%	0.1%	-
16-39	5,249	29.1	5.2	1.6%	0.6%	0.5%
40-64	11,835	54.6	5.5	10.6%	2.4%	1.0%
65-	10,162	73.6	5.6	18.2%	3.0%	1.1%

HbA1c (NGSP)

FY 2013

HbA1c (%) (NGSP) (overall)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	6,290	10.9	5.3	0.5%	0.0%	0.0%
16-39	6,536	29.0	5.2	2.2%	0.6%	0.4%
40-64	16,919	55.3	5.6	15.4%	3.7%	1.5%
65-	18,956	73.5	5.8	24.0%	4.5%	1.2%

HbA1c (%) (NGSP) (male)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	3,218	10.9	5.3	0.4%	0.1%	0.0%
16-39	2,480	28.3	5.2	2.8%	0.8%	0.7%
40-64	6,508	55.7	5.7	18.9%	5.4%	2.2%
65-	8,637	73.4	5.8	26.7%	5.6%	1.4%

HbA1c (%) (NGSP) (female)						
Age	Number of examinees	Average age	Average HbA1c	6.0% and above	7.0% and above	8.0% and above
0-6	.	.	.	.	.	.
7-15	3,072	10.9	5.3	0.6%	-	-
16-39	4,056	29.5	5.2	1.8%	0.4%	0.3%
40-64	10,411	55.0	5.6	13.2%	2.7%	1.1%
65-	10,319	73.5	5.7	21.8%	3.5%	1.0%

The prevalence of individuals with impaired glucose tolerance of HbA1c 6.0% and above in FY 2011 was: 1.6% (2.1% for males and 1.2% for females) for age group 16-39; 11.8% (16.1% for males and 8.9% for females) for age group 40-64; and 18.7% (22.4% for males and 15.8% for females) for age group 65 and above. The prevalence increased until FY 2013, but the prevalence of HbA1c 7.0 % and above and 8.0% and above for FY 2011 was: 0.7% (1.0% for males and 0.5% for females) and 0.4% (0.7% for males and 0.3% for females) for age group 16-39; 3.8% (5.7% for males and 2.6% for females) and 1.8% (2.6% for males and 1.2% for

females) for age group 40-64; 4.7% (5.9% for males and 3.7% for females) and 1.8% (2.2% for males and 1.4% for females) for age group 65 and above. The prevalence decreased until FY 2013 and the decrease of prevalence of individuals with poor blood sugar control of HbA1c 8.0% and above was prominent.

HDL-C

FY 2011

HDL-C (mg/dL) (overall)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	11,101	11.0	62.5	2.9%
16-39	14,757	28.1	62.1	4.0%
40-64	23,651	54.0	61.4	5.8%
65-	16,725	73.7	57.6	8.5%

HDL-C (mg/dL) (male)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	5,586	10.9	62.2	3.1%
16-39	5,966	27.7	56.2	7.5%
40-64	9,562	54.5	55.7	10.6%
65-	7,496	73.4	54.2	13.3%

HDL-C (mg/dL) (female)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	5,515	11.0	62.7	2.8%
16-39	8,791	28.3	66.1	1.7%
40-64	14,089	53.7	65.3	2.5%
65-	9,229	73.8	60.4	4.6%

FY 2012

HDL-C (mg/dL) (overall)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	7,243	10.9	61.3	2.7%
16-39	8,479	28.6	62.0	4.3%
40-64	19,551	55.0	60.7	6.4%
65-	18,638	73.5	57.2	8.7%

HDL-C (mg/dL) (male)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	3,711	10.9	61.4	3.1%
16-39	3,230	27.9	55.9	8.1%
40-64	7,716	55.4	55.6	11.6%
65-	8,476	73.4	54.0	13.0%

HDL-C (mg/dL) (female)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	3,532	11.0	61.1	2.3%
16-39	5,249	29.1	65.7	1.9%
40-64	11,835	54.6	64.1	3.0%
65-	10,162	73.6	59.8	5.1%

HDL-C

FY 2013

HDL-C (mg/dL) (overall)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	6,291	10.9	61.5	2.9%
16-39	6,536	29.0	62.2	4.1%
40-64	16,921	55.3	61.7	5.5%
65-	18,957	73.5	58.0	7.6%

HDL-C (mg/dL) (male)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	3,219	10.9	61.7	3.1%
16-39	2,480	28.3	56.0	8.1%
40-64	6,510	55.7	56.1	10.5%
65-	8,637	73.4	54.7	11.7%

HDL-C (mg/dL) (female)				
Age	Number of examinees	Average age	Average HDL-C	Less than 40 mg/dL
0-6	.	.	.	.
7-15	3,072	10.9	61.3	2.7%
16-39	4,056	29.5	65.9	1.7%
40-64	10,411	55.0	65.2	2.4%
65-	10,320	73.5	60.8	4.2%

The prevalence of individuals suffering from hypertriglyceridemia with less than HDL-C 40 mg/dL in FY 2011 was: 2.9% (3.1% for males and 2.8% for females) for age group 7-15; 4.0% (7.5% for males and 1.7% for females) for age group 16-39; 5.8% (10.6% for males and 2.5% for females) for age group 40-64; and 8.5% (13.3% for males and 4.6% for females) for age group 65 and above. The prevalence of the age group 65 and above barely changed until FY 2013.

Triglyceride (TG)

FY 2011

Triglyceride (TG) (mg/dL) (overall)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	11,091	11.0	76.5	7.0%	0.6%
16-39	14,757	28.1	88.5	11.4%	1.7%
40-64	23,651	54.0	117.8	21.3%	3.2%
65-	16,725	73.7	114.7	20.3%	1.6%

Triglyceride (TG) (mg/dL) (male)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	5,584	10.9	75.5	7.7%	0.6%
16-39	5,966	27.7	109.3	19.0%	3.2%
40-64	9,562	54.5	142.3	31.5%	6.0%
65-	7,496	73.4	119.6	23.1%	2.5%

Triglyceride (TG) (mg/dL) (female)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	5,507	11.0	77.5	6.3%	0.5%
16-39	8,791	28.3	74.3	6.2%	0.6%
40-64	14,089	53.7	101.1	14.4%	1.3%
65-	9,229	73.8	110.7	18.1%	1.0%

FY 2012

Triglyceride (TG) (mg/dL) (overall)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	7,242	10.9	77.0	7.1%	0.7%
16-39	8,480	28.6	89.5	11.7%	1.6%
40-64	19,552	55.0	117.0	21.5%	3.2%
65-	18,638	73.5	110.8	17.9%	1.6%

Triglyceride (TG) (mg/dL) (male)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	3,711	10.9	75.9	7.7%	0.6%
16-39	3,230	27.9	111.7	19.9%	3.0%
40-64	7,717	55.4	140.0	32.0%	5.9%
65-	8,476	73.4	115.3	20.5%	2.2%

Triglyceride (TG) (mg/dL) (female)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	3,531	11.0	78.1	6.5%	0.7%
16-39	5,250	29.1	75.8	6.7%	0.7%
40-64	11,835	54.6	102.0	14.6%	1.4%
65-	10,162	73.6	107.1	15.7%	1.0%

Triglyceride (TG)

FY 2013

Triglyceride (TG) (mg/dL) (overall)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	6,290	10.9	78.7	7.3%	0.7%
16-39	6,536	29.0	90.9	11.8%	2.0%
40-64	16,919	55.3	117.4	21.5%	3.3%
65-	18,957	73.5	112.6	18.4%	1.6%

Triglyceride (TG) (mg/dL) (male)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	3,219	10.9	77.6	7.6%	0.6%
16-39	2,480	28.3	115.8	20.5%	4.2%
40-64	6,509	55.7	140.8	30.9%	6.2%
65-	8,637	73.4	116.5	20.5%	2.2%

Triglyceride (TG) (mg/dL) (female)					
Age	Number of examinees	Average age	Average triglyceride	150 mg/dL and above	300 mg/dL and above
0-6	.	.	.	.	.
7-15	3,071	10.9	79.7	7.0%	0.7%
16-39	4,056	29.5	75.7	6.4%	0.6%
40-64	10,410	55.0	102.8	15.6%	1.5%
65-	10,320	73.5	109.4	16.6%	1.2%

The prevalence of individuals with hypertriglyceridemia of 150 mg/dL and above in FY 2011 was: 7.0% (7.7% for males and 6.3% for females) for age group 7-15; 11.4% (19.0% for males and 6.2% for females) for age group 16-39; 21.3% (31.5% for males and 14.4% for females) for age group 40-64; and 20.3% (23.1% for males and 18.1% for females) for age group 65 and above. There was a slight decrease in the age group 65 and above for FY 2012, that was followed by a period of no change until FY 2013.

LDL-C

FY 2011

LDL-C (mg/dL) (overall)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	11,098	11.0	94.1	13.2%	3.5%
16-39	14,757	28.1	110.1	33.9%	15.9%
40-64	23,651	54.0	129.3	59.8%	35.8%
65-	16,725	73.7	122.9	52.8%	28.6%

LDL-C (mg/dL) (male)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	5,587	10.9	91.9	11.7%	3.3%
16-39	5,966	27.7	114.6	40.2%	21.0%
40-64	9,562	54.5	126.9	57.8%	34.2%
65-	7,496	73.4	118.6	48.0%	24.6%

LDL-C (mg/dL) (female)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	5,511	11.0	96.3	14.8%	3.6%
16-39	8,791	28.3	107.0	29.6%	12.4%
40-64	14,089	53.7	130.9	61.1%	37.0%
65-	9,229	73.8	126.4	56.7%	31.7%

FY 2012

LDL-C (mg/dL) (overall)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	7,240	10.9	93.7	12.2%	3.4%
16-39	8,479	28.6	109.3	32.7%	15.7%
40-64	19,550	55.0	126.0	56.0%	31.6%
65-	18,638	73.5	118.0	46.7%	22.3%

LDL-C (mg/dL) (male)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	3,710	10.9	91.9	10.7%	3.2%
16-39	3,230	27.9	114.2	39.0%	21.2%
40-64	7,716	55.4	123.7	53.6%	29.6%
65-	8,476	73.4	113.8	41.8%	18.4%

LDL-C (mg/dL) (female)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	3,530	11.0	95.6	13.9%	3.6%
16-39	5,249	29.1	106.3	28.9%	12.3%
40-64	11,834	54.6	127.6	57.6%	32.9%
65-	10,162	73.6	121.6	50.8%	25.6%

LDL-C

FY 2013

LDL-C (mg/dL) (overall)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	6,291	10.9	94.1	13.8%	3.9%
16-39	6,536	29.0	110.4	34.5%	15.6%
40-64	16,921	55.3	126.8	57.2%	32.6%
65-	18,957	73.5	119.1	47.9%	23.2%

LDL-C (mg/dL) (male)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	3,219	10.9	92.6	12.3%	4.2%
16-39	2,480	28.3	114.1	40.0%	19.5%
40-64	6,510	55.7	123.9	54.3%	30.0%
65-	8,637	73.4	114.6	42.8%	18.8%

LDL-C (mg/dL) (female)					
Age	Number of examinees	Average age	Average LDL-C	120 mg/dL and above	140 mg/dL and above
0-6	.	.	.	.	.
7-15	3,072	10.9	95.8	15.4%	3.5%
16-39	4,056	29.5	108.2	31.2%	13.2%
40-64	10,411	55.0	128.6	59.1%	34.1%
65-	10,320	73.5	122.9	52.3%	26.9%

The prevalence of individuals with hyper-LDL-cholesterolemia of 120 mg/dL and above for FY 2011 was: 13.2% (11.7% for males and 14.8% for females) for age group 7-15; 33.9% (40.2% for males and 29.6% for females) for age group 16-39; 59.8% (57.8% for males and 61.1% for females) for age group 40-64; and 52.8% (48.0% for males and 56.7% for females) for age group 65 and above. There was a slight decrease of individuals 65 and above in FY 2012, followed by a period of no change until FY 2013.

AST

FY 2011

AST (U/L) (overall)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	11,103	11.0	23.6	9.6%	0.8%
16-39	14,757	28.1	20.6	8.2%	2.0%
40-64	23,651	54.0	24.2	14.5%	2.8%
65-	16,725	73.7	25.7	17.7%	2.8%

AST (U/L) (male)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	5,588	10.9	25.1	12.8%	1.3%
16-39	5,966	27.7	24.2	15.3%	3.8%
40-64	9,562	54.5	26.9	21.4%	4.3%
65-	7,496	73.4	27.2	23.0%	3.7%

AST (U/L) (female)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	5,515	11.0	22.0	6.4%	0.4%
16-39	8,791	28.3	18.2	3.4%	0.8%
40-64	14,089	53.7	22.3	9.7%	1.8%
65-	9,229	73.8	24.5	13.4%	2.2%

FY 2012

AST (U/L) (overall)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	7,243	10.9	24.1	10.6%	0.8%
16-39	8,479	28.6	20.8	8.7%	1.8%
40-64	19,552	55.0	24.7	15.8%	3.0%
65-	18,638	73.5	26.4	19.5%	2.8%

AST (U/L) (male)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	3,711	10.9	25.6	14.1%	1.2%
16-39	3,229	27.9	24.6	16.6%	3.3%
40-64	7,717	55.4	27.6	23.7%	4.4%
65-	8,476	73.4	27.8	25.1%	3.6%

AST (U/L) (female)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	3,532	11.0	22.6	7.0%	0.5%
16-39	5,250	29.1	18.5	3.8%	0.9%
40-64	11,835	54.6	22.8	10.6%	2.1%
65-	10,162	73.6	25.2	14.8%	2.2%

AST

FY 2013

AST (U/L) (overall)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	6,291	10.9	24.0	10.5%	0.7%
16-39	6,536	29.0	20.6	8.4%	2.0%
40-64	16,919	55.3	24.1	14.1%	2.8%
65-	18,957	73.5	25.6	16.8%	2.6%

AST (U/L) (male)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	3,219	10.9	25.5	14.4%	1.1%
16-39	2,480	28.3	24.1	15.7%	3.6%
40-64	6,509	55.7	26.8	20.9%	4.3%
65-	8,637	73.4	26.8	21.4%	3.2%

AST (U/L) (female)					
Age	Number of examinees	Average age	Average AST	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	3,072	10.9	22.4	6.4%	0.3%
16-39	4,056	29.5	18.4	3.9%	1.0%
40-64	10,410	55.0	22.4	9.8%	1.9%
65-	10,320	73.5	24.6	13.0%	2.0%

Results above the reference inferral for AST (i.e., ≥ 51 U/L) in FY 2013 were found in: 2.0% of those aged 16-39, 2.8% aged 40-64, and 2.6% aged 65 and above. Further the frequency base on gender for each age group were: 3.6% for males and 1.0% for females for age group 16-39; 4.3% for males and 1.9% for females for age group 40-64; and 3.2% for males and 2.0% for females for age group 65 and above. Males had a higher frequency compared to females. The transition of frequency based on age groups for FY 2011, 2012 and 2013 were respectively: (2.0% \rightarrow 1.8% \rightarrow 2.0%) for age group 16-39; (2.8% \rightarrow 3.0% \rightarrow 2.8%) for age group 40-64; and (2.8% \rightarrow 2.8% \rightarrow 2.6%) for age group 65 and above.

ALT

FY 2011

ALT (U/L) (overall)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	11,103	11.0	15.7	4.5%	1.6%
16-39	14,757	28.1	21.8	15.9%	7.0%
40-64	23,651	54.0	24.5	20.8%	6.9%
65-	16,725	73.7	20.9	13.6%	3.7%

ALT (U/L) (male)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	5,588	10.9	17.8	7.0%	2.6%
16-39	5,966	27.7	31.4	31.0%	14.1%
40-64	9,562	54.5	30.3	32.8%	11.3%
65-	7,496	73.4	23.5	18.8%	5.2%

ALT (U/L) (female)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	5,515	11.0	13.6	2.0%	0.7%
16-39	8,791	28.3	15.3	5.6%	2.2%
40-64	14,089	53.7	20.5	12.7%	3.9%
65-	9,229	73.8	18.8	9.5%	2.6%

FY 2012

ALT (U/L) (overall)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	7,243	10.9	15.7	4.8%	1.4%
16-39	8,480	28.6	21.8	16.9%	7.0%
40-64	19,552	55.0	24.7	21.4%	7.1%
65-	18,638	73.5	21.6	14.2%	3.6%

ALT (U/L) (male)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	3,711	10.9	17.8	7.4%	2.2%
16-39	3,230	27.9	31.8	33.6%	14.7%
40-64	7,717	55.4	30.7	33.8%	11.6%
65-	8,476	73.4	24.0	19.5%	4.9%

ALT (U/L) (female)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	3,532	11.0	13.5	2.0%	0.5%
16-39	5,250	29.1	15.7	6.5%	2.3%
40-64	11,835	54.6	20.8	13.3%	4.2%
65-	10,162	73.6	19.5	9.8%	2.6%

ALT

FY 2013

ALT (U/L) (overall)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	6,291	10.9	15.7	4.7%	1.6%
16-39	6,536	29.0	21.8	16.1%	6.8%
40-64	16,919	55.3	24.1	20.0%	6.7%
65-	18,957	73.5	21.0	13.0%	3.1%

ALT (U/L) (male)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	3,219	10.9	18.0	7.5%	2.6%
16-39	2,480	28.3	31.3	31.6%	14.0%
40-64	6,509	55.7	29.7	31.6%	11.2%
65-	8,637	73.4	23.0	17.1%	4.2%

ALT (U/L) (female)					
Age	Number of examinees	Average age	Average ALT	31 U/L and above	51 U/L and above
0-6	.	.	.	.	.
7-15	3,072	10.9	13.3	1.8%	0.5%
16-39	4,056	29.5	15.9	6.7%	2.5%
40-64	10,410	55.0	20.6	12.7%	3.9%
65-	10,320	73.5	19.3	9.5%	2.3%

The prevalence of individuals with an ALT of 51 U/L and above in FY 2013 was: 6.8% for age group 16-39; 6.7% for age group 40-64; and 3.1% for age group 65 and above. Furthermore, the frequency based on gender is 14.0% for males and 2.5% for females for age group 16-39; 11.2% for males and 3.9% for females for age group 40-64; and 4.2% for males and 2.3% for females for age group 65 and above. Males had higher frequencies compared to women, and the age group 65 and above had lower frequencies. The transition based on age group for FY 2011, 2012 and 2013 were respectively: (7.0%→7.0%→6.8%) for age group 16-39; (6.9%→7.1%→6.7%) for age group 40-64; and (3.7%→3.6%→3.1%) for age group 65 and above.

γ -GT

FY 2011

γ -GT (U/L) (overall)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	11,101	11.0	14.6	0.6%	0.1%
16-39	14,757	28.1	25.4	8.5%	2.5%
40-64	23,651	54.0	39.7	19.9%	6.2%
65-	16,725	73.7	32.8	13.4%	3.7%

γ -GT (U/L) (male)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	5,587	10.9	16.0	1.0%	0.1%
16-39	5,966	27.7	37.2	17.2%	5.4%
40-64	9,562	54.5	58.8	35.6%	12.3%
65-	7,496	73.4	44.2	22.4%	6.9%

γ -GT (U/L) (female)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	5,514	11.0	13.2	0.2%	0.0%
16-39	8,791	28.3	17.3	2.5%	0.5%
40-64	14,089	53.7	26.8	9.3%	2.1%
65-	9,229	73.8	23.6	6.0%	1.1%

FY 2012

γ -GT (U/L) (overall)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	7,242	10.9	14.7	0.4%	0.1%
16-39	8,480	28.6	25.6	8.8%	2.5%
40-64	19,552	55.0	40.5	20.4%	6.5%
65-	18,638	73.5	33.4	14.0%	3.8%

γ -GT (U/L) (male)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	3,710	10.9	16.0	0.7%	0.2%
16-39	3,230	27.9	38.0	18.5%	5.4%
40-64	7,717	55.4	60.7	36.9%	12.8%
65-	8,476	73.4	44.1	23.1%	6.7%

γ -GT (U/L) (female)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	3,532	11.0	13.3	0.1%	-
16-39	5,250	29.1	17.9	2.8%	0.6%
40-64	11,835	54.6	27.3	9.7%	2.4%
65-	10,162	73.6	24.4	6.5%	1.5%

γ -GT

FY 2013

γ -GT (U/L) (overall)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	6,291	10.9	14.4	0.4%	0.0%
16-39	6,535	29.0	26.0	9.1%	2.7%
40-64	16,919	55.3	39.3	19.5%	6.2%
65-	18,956	73.5	33.7	13.9%	3.9%

γ -GT (U/L) (male)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	3,219	10.9	15.7	0.8%	0.1%
16-39	2,480	28.3	38.8	18.8%	5.9%
40-64	6,509	55.7	58.9	35.1%	12.3%
65-	8,637	73.4	44.4	22.6%	6.8%

γ -GT (U/L) (female)					
Age	Number of examinees	Average age	Average γ -GT	51 U/L and above	101 U/L and above
0-6	.	.	.	.	.
7-15	3,072	10.9	13.0	0.1%	0.0%
16-39	4,055	29.5	18.2	3.1%	0.7%
40-64	10,410	55.0	27.1	9.7%	2.4%
65-	10,319	73.5	24.7	6.6%	1.4%

Individuals with 101 U/L and above γ -GT in FY 2013 were: 2.7% for age group 16-39; 6.2% for age group 40-64; and 3.9% for age group 65 and above. Furthermore the frequencies based on gender were: 5.9% for males and 0.7% for females for age group 16-39; 12.3% for males and 2.4% for females for age group 40-64; and 6.8% for males and 1.4% for females for age group 65 and above. The frequencies for males were higher compared to females. The transition based on age group for FY 2011, 2012 and 2013 were respectively: (2.5%→2.5%→2.7%) for age group 16-39; (6.2%→6.5%→6.2%) for age group 40-64; and (3.7%→3.8%→3.9%) for age group 65 and above.

Uric acid

FY 2011

Uric acid (mg/dL) (overall)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	11,091	11.0	4.5	2.5%	0.6%
16-39	14,757	28.1	5.0	7.9%	2.7%
40-64	23,651	54.0	5.0	8.0%	2.7%
65-	16,725	73.7	5.1	7.6%	2.5%

Uric acid (mg/dL) (male)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	5,584	10.9	4.8	4.7%	1.2%
16-39	5,966	27.7	6.0	18.5%	6.5%
40-64	9,562	54.5	5.9	18.1%	6.2%
65-	7,496	73.4	5.7	14.4%	4.9%

Uric acid (mg/dL) (female)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	5,507	11.0	4.3	0.3%	0.1%
16-39	8,791	28.3	4.2	0.7%	0.2%
40-64	14,089	53.7	4.3	1.1%	0.3%
65-	9,229	73.8	4.5	2.1%	0.6%

FY 2012

Uric acid (mg/dL) (overall)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	7,232	10.9	4.7	3.4%	1.1%
16-39	8,480	28.6	5.0	8.2%	2.7%
40-64	19,552	55.0	5.1	9.1%	3.1%
65-	18,637	73.5	5.1	8.7%	3.2%

Uric acid (mg/dL) (male)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	3,704	10.9	5.0	6.1%	2.0%
16-39	3,230	27.9	6.1	20.3%	6.8%
40-64	7,717	55.4	6.0	20.9%	7.3%
65-	8,475	73.4	5.8	16.0%	5.9%

Uric acid (mg/dL) (female)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	3,528	11.0	4.4	0.6%	0.2%
16-39	5,250	29.1	4.3	0.7%	0.2%
40-64	11,835	54.6	4.4	1.5%	0.4%
65-	10,162	73.6	4.6	2.6%	0.8%

Uric acid

FY 2013

Uric acid (mg/dL) (overall)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	6,290	10.9	4.5	2.6%	0.7%
16-39	6,536	29.0	5.0	8.9%	3.2%
40-64	16,921	55.3	5.1	8.4%	2.7%
65-	18,957	73.5	5.2	9.0%	2.9%

Uric acid (mg/dL) (male)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	3,218	10.9	4.8	4.9%	1.5%
16-39	2,480	28.3	6.1	21.8%	8.0%
40-64	6,510	55.7	6.0	19.7%	6.4%
65-	8,637	73.4	5.8	16.3%	5.2%

Uric acid (mg/dL) (female)					
Age	Number of examinees	Average age	Average uric acid	7.1 mg/dL and above	8.0 mg/dL and above
0-6	.	.	.	.	.
7-15	3,072	10.9	4.2	0.2%	-
16-39	4,056	29.5	4.3	1.0%	0.3%
40-64	10,411	55.0	4.5	1.4%	0.4%
65-	10,320	73.5	4.7	3.0%	0.9%

The prevalence of individuals with a uric acid level of 7.1 mg/dL and above in FY 2011 was: 2.5 % (4.7% for males and 0.3% for females) for age group 7-15; 7.9% (18.5% for males and 0.7% for females) for age group 16-39; 8.0% (18.1% for males and 1.1% for females) for age group 40-64; and 7.6% (14.4% for males and 2.1% for females) for age group 65 and above. On the other hand, the prevalence of individuals with a uric acid level of 7.1 mg/dL and above in FY 2013 for age groups 7-15, 16-39, 40-64, and 65 and above were respectively 2.6%, 8.9%, 8.4%, and 9.0%. The prevalence increased in all age groups.

RBC

FY 2011

RBC ($10^6/\mu\text{L}$) (overall)			
Age	Number of examinees	Average age	Average RBC
0-6	6,428	3.6	4.70
7-15	11,474	11.0	4.80
16-39	14,757	28.1	4.84
40-64	23,649	54.0	4.71
65-	16,723	73.7	4.56

RBC ($10^6/\mu\text{L}$) (male)						
Age	Number of examinees	Average age	Average RBC	$3.69 \times 10^6/\mu\text{L}$ and below	$3.99 \times 10^6/\mu\text{L}$ and below	$5.80 \times 10^6/\mu\text{L}$ and above
0-6	3,253	3.6	4.72	0.0%	0.6%	0.2%
7-15	5,764	10.9	4.91	0.0%	0.3%	1.1%
16-39	5,966	27.7	5.21	0.0%	0.1%	4.4%
40-64	9,562	54.5	4.96	0.4%	1.3%	1.6%
65-	7,495	73.4	4.74	1.5%	5.3%	1.1%

RBC ($10^6/\mu\text{L}$) (female)						
Age	Number of examinees	Average age	Average RBC	$3.39 \times 10^6/\mu\text{L}$ and below	$3.69 \times 10^6/\mu\text{L}$ and below	$5.50 \times 10^6/\mu\text{L}$ and above
0-6	3,175	3.6	4.68	0.1%	0.1%	0.8%
7-15	5,710	11.0	4.69	0.0%	0.1%	0.8%
16-39	8,791	28.3	4.58	0.0%	0.7%	0.5%
40-64	14,087	53.7	4.54	0.2%	0.8%	0.4%
65-	9,228	73.8	4.42	0.8%	3.3%	0.4%

FY 2012

RBC (10 ⁶ /μL) (overall)			
Age	Number of examinees	Average age	Average RBC
0-6	4,342	3.6	4.69
7-15	7,435	10.9	4.80
16-39	8,479	28.6	4.75
40-64	19,552	55.0	4.61
65-	18,636	73.5	4.45

RBC (10 ⁶ /μL) (male)						
Age	Number of examinees	Average age	Average RBC	3.69x10 ⁶ /μL and below	3.99x10 ⁶ /μL and below	5.80x10 ⁶ /μL and above
0-6	2,166	3.6	4.72	-	0.9%	0.4%
7-15	3,809	10.8	4.90	0.0%	0.3%	0.7%
16-39	3,230	27.9	5.17	-	0.1%	3.5%
40-64	7,717	55.4	4.88	0.7%	2.0%	1.6%
65-	8,476	73.4	4.63	2.9%	8.5%	0.9%

RBC (10 ⁶ /μL) (female)						
Age	Number of examinees	Average age	Average RBC	3.39x10 ⁶ /μL and below	3.69x10 ⁶ /μL and below	5.50x10 ⁶ /μL and above
0-6	2,176	3.6	4.67	-	-	0.9%
7-15	3,626	10.9	4.70	-	0.1%	0.6%
16-39	5,249	29.1	4.49	0.2%	1.0%	0.4%
40-64	11,835	54.6	4.44	0.3%	1.5%	0.4%
65-	10,160	73.6	4.30	1.5%	6.7%	0.2%

RBC

FY 2013

RBC ($10^6/\mu\text{L}$) (overall)			
Age	Number of examinees	Average age	Average RBC
0-6	3,781	3.7	4.70
7-15	6,421	10.8	4.81
16-39	6,536	29.0	4.75
40-64	16,920	55.3	4.62
65-	18,955	73.5	4.46

RBC ($10^6/\mu\text{L}$) (male)						
Age	Number of examinees	Average age	Average RBC	$3.69 \times 10^6/\mu\text{L}$ and below	$3.99 \times 10^6/\mu\text{L}$ and below	$5.80 \times 10^6/\mu\text{L}$ and above
0-6	1,942	3.7	4.73	0.1%	0.5%	0.3%
7-15	3,287	10.9	4.91	-	0.1%	0.9%
16-39	2,480	28.3	5.16	-	0.2%	3.7%
40-64	6,510	55.7	4.89	0.7%	2.0%	1.8%
65-	8,637	73.4	4.64	2.7%	8.5%	0.8%

RBC ($10^6/\mu\text{L}$) (female)						
Age	Number of examinees	Average age	Average RBC	$3.39 \times 10^6/\mu\text{L}$ and below	$3.69 \times 10^6/\mu\text{L}$ and below	$5.50 \times 10^6/\mu\text{L}$ and above
0-6	1,839	3.7	4.68	0.1%	0.1%	0.8%
7-15	3,134	10.8	4.70	-	0.1%	0.6%
16-39	4,056	29.5	4.50	0.3%	1.1%	0.6%
40-64	10,410	55.0	4.45	0.3%	1.7%	0.3%
65-	10,318	73.5	4.31	1.6%	6.2%	0.3%

The prevalence by age group with an RBC of $3.69 \times 10^6/\mu\text{L}$ and above among males for FY 2011 was: 0.0% for age group 0-6; 0.0% for age group 7-15; 0.0% for age group 16-39; 0.4% for age group 40-64; and 1.5% for age group 65 and above. For FY 2012 the prevalence was: not applicable for age group 0-6; 0.0% for age group 7-15; not applicable for age group 16-39; 0.7% for age group 40-64; and 2.9% for age group 65 and above. For FY 2013 the prevalence was: 0.1% for age group 0-6; not applicable for age group 7-15; not applicable for age group 16-39; 0.7% for age group 40-64; and 2.7% for age group 65 and above.

The prevalence by age group with an RBC of $3.39 \times 10^6/\mu\text{L}$ and above among females in FY 2011 was: 0.1% for age group 0-6; 0.0% for age group 7-15; 0.0% for age group 16-39; 0.2% for age group 40-64; 0.8% for age group 65 and above. For FY 2012 the prevalence was: not applicable for age group 0-6; not applicable for age group 7-15; 0.2% for age group 16-39; 0.3% for age group 40-64; and 1.5% for age group 65 and above. For FY 2013 the prevalence was: 0.1% for age group 0-6; not applicable for age group 7-15; 0.3% for age group 16-39; 0.3% for age group 40-64; and 1.6% for age group 65 and above.

There were no significant differences in the average values of each age group through FY 2011-2013, but there was a high prevalence of polycythemia among 16-39 year old males.

Hemoglobin

FY 2011

Hemoglobin (g/dL) (overall)			
Age	Number of examinees	Average age	Average hemoglobin
0-6	6,428	3.6	12.6
7-15	11,475	11.0	13.6
16-39	14,757	28.1	14.3
40-64	23,649	54.0	14.3
65-	16,723	73.7	14.1

Hemoglobin (g/dL) (male)						
Age	Number of examinees	Average age	Average hemoglobin	12.0 g/dL and below	13.0 g/dL and below	18.0 g/dL and above
0-6	3,253	3.6	12.5	24.5%	74.2%	-
7-15	5,765	10.9	13.8	3.8%	24.8%	0.0%
16-39	5,966	27.7	15.9	0.3%	0.6%	1.7%
40-64	9,562	54.5	15.5	0.8%	2.4%	1.5%
65-	7,495	73.4	14.9	3.1%	8.8%	1.4%

Hemoglobin (g/dL) (female)						
Age	Number of examinees	Average age	Average hemoglobin	11.0 g/dL and below	12.0 g/dL and below	16.0 g/dL and above
0-6	3,175	3.6	12.6	3.1%	23.8%	-
7-15	5,710	11.0	13.3	1.6%	7.6%	0.1%
16-39	8,791	28.3	13.3	5.7%	13.2%	0.4%
40-64	14,087	53.7	13.4	5.6%	11.4%	1.0%
65-	9,228	73.8	13.5	2.7%	10.5%	1.0%

FY 2012

Hemoglobin (g/dL) (overall)			
Age	Number of examinees	Average age	Average hemoglobin
0-6	4,342	3.6	12.6
7-15	7,435	10.9	13.6
16-39	8,479	28.6	14.1
40-64	19,552	55.0	14.0
65-	18,636	73.5	13.8

Hemoglobin (g/dL) (male)						
Age	Number of examinees	Average age	Average hemoglobin	12.0 g/dL and below	13.0 g/dL and below	18.0 g/dL and above
0-6	2,166	3.6	12.6	25.3%	71.4%	-
7-15	3,809	10.8	13.8	3.2%	21.9%	-
16-39	3,230	27.9	15.7	0.2%	0.5%	1.0%
40-64	7,717	55.4	15.2	0.9%	3.5%	1.2%
65-	8,476	73.4	14.6	4.0%	12.8%	0.8%

Hemoglobin (g/dL) (female)						
Age	Number of examinees	Average age	Average hemoglobin	11.0 g/dL and below	12.0 g/dL and below	16.0 g/dL and above
0-6	2,176	3.6	12.6	3.2%	23.1%	0.0%
7-15	3,626	10.9	13.4	1.0%	6.2%	0.2%
16-39	5,249	29.1	13.1	6.0%	15.3%	0.4%
40-64	11,835	54.6	13.2	5.0%	12.5%	0.7%
65-	10,160	73.6	13.1	3.7%	15.4%	0.4%

Hemoglobin

FY 2013

Hemoglobin (g/dL) (overall)			
Age	Number of examinees	Average age	Average hemoglobin
0-6	3,781	3.7	12.6
7-15	6,421	10.8	13.6
16-39	6,536	29.0	14.1
40-64	16,920	55.3	14.1
65-	18,955	73.5	13.9

Hemoglobin (g/dL) (male)						
Age	Number of examinees	Average age	Average hemoglobin	12.0 g/dL and below	13.0 g/dL and below	18.0 g/dL and above
0-6	1,942	3.7	12.6	25.0%	71.7%	-
7-15	3,287	10.9	13.8	2.5%	23.4%	0.0%
16-39	2,480	28.3	15.7	0.2%	0.6%	0.9%
40-64	6,510	55.7	15.3	1.0%	2.8%	1.4%
65-	8,637	73.4	14.7	3.7%	11.3%	1.1%

Hemoglobin (g/dL) (female)						
Age	Number of examinees	Average age	Average hemoglobin	11.0 g/dL and below	12.0 g/dL and below	16.0 g/dL and above
0-6	1,839	3.7	12.6	3.8%	22.0%	-
7-15	3,134	10.8	13.4	1.1%	5.9%	0.1%
16-39	4,056	29.5	13.2	4.9%	13.6%	0.4%
40-64	10,410	55.0	13.3	4.2%	11.0%	0.8%
65-	10,318	73.5	13.3	3.1%	13.4%	0.6%

The prevalence based on age groups for males with 12.0 g/dL and above hemoglobin in FY 2011 was: 24.5% for age group 0-6; 3.8% for age group 7-15; 0.3% for age group 16-39; 0.8% for age group 40-64; and 3.1% for age group 65 and above. The prevalence for FY 2012 was: 25.3% for age group 0-6; 3.2% for age group 7-15; 0.2% for age group 16-39; 0.9% for age group 40-64; and 4.0% for age group 65 and above. The prevalence for FY 2013 was: 25.0% for age group 0-6; 2.5% for age group 7-15; 0.2% for age group 16-39; 1.0% for age group 40-64; 3.7% for age group 65 and above.

The prevalence based on age groups for females with 11.0 g/dL and above hemoglobin in FY 2011 was: 3.1% for age group 0-6; 1.6% for age group 7-15; 5.7% for age group 16-39; 5.6% for age group 40-64; and 2.7% for age group 65 and above. The prevalence for FY 2012 was: 3.2% for age group 0-6; 1.0% for age group 7-15; 6.0% for age group 16-39; 5.0% for age group 40-64; 3.7% for age group 65 and above. The prevalence for FY 2013 was: 3.8% for age group 0-6; 1.1% for age group 7-15; 4.9% for age group 16-39; 4.2% for age group 40-64; and 3.1% for age group 65 and above.

Further, there were no significant differences in the average value of each age group throughout FY 2011-2013.

Hematocrit

FY 2011

Hematocrit (%) (overall)			
Age	Number of examinees	Average age	Average hematocrit
0-6	6,428	3.6	37.3
7-15	11,475	11.0	40.3
16-39	14,757	28.1	42.9
40-64	23,649	54.0	42.8
65-	16,723	73.7	42.4

Hematocrit (%) (male)						
Age	Number of examinees	Average age	Average hematocrit	≤35.9%	≤37.9%	≥55.0%
0-6	3,253	3.6	37.2	28.4%	64.4%	-
7-15	5,765	10.9	40.9	5.2%	19.0%	-
16-39	5,966	27.7	46.7	0.2%	0.3%	0.1%
40-64	9,562	54.5	45.8	0.6%	1.3%	0.2%
65-	7,495	73.4	44.3	2.2%	4.8%	0.3%

Hematocrit (%) (female)						
Age	Number of examinees	Average age	Average hematocrit	≤28.9%	≤32.9%	≥48.0%
0-6	3,175	3.6	37.4	0.2%	2.1%	-
7-15	5,710	11.0	39.8	0.2%	0.9%	0.1%
16-39	8,791	28.3	40.3	0.4%	2.3%	0.2%
40-64	14,087	53.7	40.7	0.6%	2.9%	0.6%
65-	9,228	73.8	40.8	0.2%	1.2%	0.9%

FY 2012

Hematocrit (%) (overall)			
Age	Number of examinees	Average age	Average hematocrit
0-6	4,342	3.6	37.7
7-15	7,435	10.9	40.8
16-39	8,480	28.6	42.7
40-64	19,552	55.0	42.7
65-	18,636	73.5	42.2

Hematocrit (%) (male)						
Age	Number of examinees	Average age	Average hematocrit	≤35.9%	≤37.9%	≥55.0%
0-6	2,166	3.6	37.6	24.1%	56.6%	-
7-15	3,809	10.8	41.3	2.8%	12.9%	-
16-39	3,230	27.9	46.8	0.1%	0.2%	0.2%
40-64	7,717	55.4	45.8	0.6%	1.3%	0.4%
65-	8,476	73.4	44.2	2.6%	6.1%	0.4%

Hematocrit (%) (female)						
Age	Number of examinees	Average age	Average hematocrit	≤28.9%	≤32.9%	≥48.0%
0-6	2,176	3.6	37.9	0.1%	1.4%	0.0%
7-15	3,626	10.9	40.4	0.0%	0.4%	0.2%
16-39	5,250	29.1	40.2	0.3%	2.2%	0.4%
40-64	11,835	54.6	40.7	0.4%	2.2%	1.0%
65-	10,160	73.6	40.5	0.3%	1.7%	0.9%

Hematocrit

FY 2013

Hematocrit (%) (overall)			
Age	Number of examinees	Average age	Average hematocrit
0-6	3,781	3.7	37.3
7-15	6,421	10.8	40.3
16-39	6,536	29.0	42.4
40-64	16,920	55.3	42.3
65-	18,955	73.5	41.8

Hematocrit (%) (male)						
Age	Number of examinees	Average age	Average hematocrit	≤35.9%	≤37.9%	≥55.0%
0-6	1,942	3.7	37.2	29.0%	62.5%	-
7-15	3,287	10.9	40.8	4.5%	18.2%	-
16-39	2,480	28.3	46.3	0.2%	0.4%	0.1%
40-64	6,510	55.7	45.4	0.7%	1.6%	0.3%
65-	8,637	73.4	43.7	3.2%	7.1%	0.3%

Hematocrit (%) (female)						
Age	Number of examinees	Average age	Average hematocrit	≤28.9%	≤32.9%	≥48.0%
0-6	1,839	3.7	37.5	0.1%	2.9%	-
7-15	3,134	10.8	39.8	0.1%	0.7%	0.1%
16-39	4,056	29.5	40.0	0.4%	2.3%	0.3%
40-64	10,410	55.0	40.4	0.5%	2.3%	0.7%
65-	10,318	73.5	40.2	0.2%	2.0%	0.8%

The prevalence based on age groups for males with 35.9% and below hematocrit in FY 2011 was: 28.4% for age group 0-6; 5.2% for age group 7-15; 0.2% for age group 16-39; 0.6% for age group 40-64; and 2.2% for age group 65 and above. The prevalence for FY 2012 was 24.1% for age group 0-6; 2.8% for age group 7-15; 0.1% for age group 16-39; 0.6% for age group 40-64; 2.6% for age group 65 and above. For FY 2013 the prevalence was: 29.0% for age group 0-6; 4.5% for age group 7-15; 0.2% for age group 16-39; 0.7% for age group 40-64; and 3.2% for age group 65 and above.

The prevalence based on age groups for females with 28.9% and above hematocrit in FY 2011

was: 0.2% for age group 0-6; 0.2% for age group 7-15; 0.4% for age group 16-39; 0.6% for age group 40-64; 0.2% for age group 65 and above. For FY 2012 the prevalence was: 0.1% for age group 0-6; 0.0% for age group 7-15; 0.3% for age group 16-39; 0.4% for age group 40-64; and 0.3% for age group 65 and above. For FY 2013 the prevalence was: 0.1% for age group 0-6; 0.1% for age group 7-15; 0.4% for age group 16-39; 0.5% for age group 40-64; and 0.2% for age group 65 and above.

Further there was no significant change in the average value of each age group throughout FY 2011-2013.

Platelet count

FY 2011

Platelet count ($10^3/\mu\text{L}$) (overall)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	6,423	3.6	321.9	0.2%	0.5%	22.5%	6.1%
7-15	11,471	11.0	275.4	0.0%	0.2%	6.4%	0.9%
16-39	14,703	28.1	263.9	0.0%	0.2%	4.5%	0.6%
40-64	23,479	54.0	254.2	0.2%	0.8%	3.7%	0.6%
65-	16,535	73.7	230.9	0.3%	1.9%	1.7%	0.3%

Platelet count ($10^3/\mu\text{L}$) (male)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	3,251	3.6	321.2	0.3%	0.5%	22.3%	6.4%
7-15	5,763	10.9	277.4	-	0.1%	7.2%	1.0%
16-39	5,951	27.7	252.7	0.0%	0.2%	2.4%	0.2%
40-64	9,495	54.5	242.4	0.3%	1.2%	2.1%	0.3%
65-	7,412	73.4	220.7	0.2%	2.7%	1.4%	0.4%

Platelet count ($10^3/\mu\text{L}$) (female)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	3,172	3.6	322.5	0.2%	0.4%	22.7%	5.7%
7-15	5,708	11.0	273.5	0.1%	0.3%	5.6%	0.8%
16-39	8,752	28.3	271.6	0.0%	0.2%	5.9%	1.0%
40-64	13,984	53.7	262.2	0.2%	0.6%	4.9%	0.9%
65-	9,123	73.8	239.2	0.3%	1.2%	2.0%	0.3%

Platelet count ($10^3/\mu\text{L}$) (overall)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	4,336	3.6	323.3	0.2%	0.4%	23.4%	6.3%
7-15	7,431	10.9	275.0	0.0%	0.2%	5.9%	0.6%
16-39	8,467	28.6	257.0	0.1%	0.3%	3.2%	0.5%
40-64	19,485	55.0	244.9	0.3%	1.0%	2.7%	0.4%
65-	18,563	73.5	221.6	0.4%	2.7%	1.2%	0.3%

Platelet count ($10^3/\mu\text{L}$) (male)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	2,164	3.6	321.1	0.0%	0.3%	22.8%	6.0%
7-15	3,807	10.8	276.3	-	0.3%	6.1%	0.6%
16-39	3,225	27.8	249.4	-	0.3%	1.6%	0.1%
40-64	7,691	55.4	237.3	0.4%	1.4%	2.0%	0.3%
65-	8,439	73.4	213.8	0.4%	3.5%	0.9%	0.3%

Platelet count ($10^3/\mu\text{L}$) (female)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	2,172	3.6	325.4	0.3%	0.6%	24.0%	6.7%
7-15	3,624	10.9	273.6	0.0%	0.1%	5.7%	0.5%
16-39	5,242	29.1	261.7	0.1%	0.4%	4.2%	0.7%
40-64	11,794	54.6	249.9	0.2%	0.8%	3.1%	0.4%
65-	10,124	73.6	228.2	0.4%	2.1%	1.5%	0.3%

Platelet count

FY 2013

Platelet count ($10^3/\mu\text{L}$) (overall)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	3,778	3.7	324.7	0.0%	0.3%	23.9%	6.2%
7-15	6,420	10.8	279.5	0.0%	0.1%	6.3%	0.8%
16-39	6,528	29.0	262.6	0.1%	0.4%	4.1%	0.5%
40-64	16,872	55.3	249.7	0.2%	0.9%	3.3%	0.6%
65-	18,878	73.5	225.1	0.4%	2.2%	1.3%	0.3%

Platelet count ($10^3/\mu\text{L}$) (male)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	1,941	3.7	324.4	-	0.4%	24.3%	6.6%
7-15	3,287	10.9	280.5	-	0.1%	7.0%	0.9%
16-39	2,479	28.3	254.5	0.0%	0.4%	2.7%	0.2%
40-64	6,494	55.7	242.8	0.3%	1.2%	2.5%	0.3%
65-	8,603	73.4	217.5	0.4%	3.0%	1.1%	0.3%

Platelet count ($10^3/\mu\text{L}$) (female)							
Age	Number of examinees	Average age	Average platelet count	$89 \times 10^3/\mu\text{L}$ and below	$129 \times 10^3/\mu\text{L}$ and below	$370 \times 10^3/\mu\text{L}$ and above	$450 \times 10^3/\mu\text{L}$ and above
0-6	1,837	3.7	325.0	0.1%	0.3%	23.6%	5.8%
7-15	3,133	10.8	278.5	0.0%	0.1%	5.6%	0.8%
16-39	4,049	29.5	267.6	0.2%	0.4%	4.9%	0.7%
40-64	10,378	55.0	253.9	0.2%	0.7%	3.8%	0.7%
65-	10,275	73.5	231.4	0.3%	1.5%	1.4%	0.3%

The prevalence of individuals with the platelet count of $89 \times 10^3/\mu\text{L}$ and below was: 0.2% (0.3% for males and 0.2% for females) for age group 0-6; 0.0% (not applicable for males and 0.1% for females) for age group 7-15; 0.0% (0.0% for males and 0.0% for females) for age group

16-39; 0.2% (0.3% for males and 0.2% for females) for age group 40-64; and 0.3% (0.2% for males and 0.3% for females) for age group 65 and above.

Further, there were no significant changes in the average value of all age groups throughout FY 2011-2013.

WBC

FY 2011

WBC ($10^3/\mu\text{L}$) (overall)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	6,429	3.6	8.5	0.1%	0.6%	28.1%	13.0%
7-15	11,475	11.0	6.5	0.2%	3.7%	5.8%	2.0%
16-39	14,757	28.1	6.1	0.6%	6.4%	4.1%	1.4%
40-64	23,649	54.0	5.9	0.8%	8.2%	3.0%	1.0%
65-	16,723	73.7	5.9	0.6%	6.8%	2.3%	0.7%

WBC ($10^3/\mu\text{L}$) (male)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	3,253	3.6	8.5	0.1%	0.7%	28.3%	12.9%
7-15	5,765	10.9	6.5	0.2%	3.4%	6.0%	2.1%
16-39	5,966	27.7	6.3	0.3%	4.6%	4.6%	1.6%
40-64	9,562	54.5	6.4	0.3%	4.0%	5.1%	1.8%
65-	7,495	73.4	6.2	0.3%	4.8%	3.1%	1.1%

WBC ($10^3/\mu\text{L}$) (female)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	3,176	3.6	8.5	0.1%	0.4%	27.9%	13.0%
7-15	5,710	11.0	6.5	0.2%	4.0%	5.7%	1.8%
16-39	8,791	28.3	6.0	0.9%	7.6%	3.8%	1.3%
40-64	14,087	53.7	5.6	1.1%	11.1%	1.6%	0.5%
65-	9,228	73.8	5.8	0.9%	8.5%	1.7%	0.5%

FY 2012

WBC ($10^3/\mu\text{L}$) (overall)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	4,342	3.6	8.6	0.1%	0.4%	29.1%	13.4%
7-15	7,435	10.9	6.5	0.2%	2.6%	6.0%	2.0%
16-39	8,480	28.6	6.0	0.7%	7.8%	3.6%	1.3%
40-64	19,551	55.0	5.8	0.9%	9.7%	2.6%	0.8%
65-	18,637	73.5	5.7	0.8%	8.3%	1.7%	0.5%

WBC ($10^3/\mu\text{L}$) (male)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	2,166	3.6	8.6	0.0%	0.3%	29.3%	13.2%
7-15	3,809	10.8	6.5	0.2%	2.7%	6.5%	2.2%
16-39	3,230	27.9	6.1	0.4%	5.3%	4.1%	1.6%
40-64	7,717	55.4	6.2	0.3%	5.1%	4.3%	1.4%
65-	8,476	73.4	6.0	0.5%	6.1%	2.4%	0.7%

WBC ($10^3/\mu\text{L}$) (female)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	2,176	3.6	8.6	0.1%	0.5%	29.0%	13.5%
7-15	3,626	10.9	6.5	0.2%	2.5%	5.4%	1.8%
16-39	5,250	29.1	5.9	0.9%	9.4%	3.4%	1.1%
40-64	11,834	54.6	5.5	1.3%	12.6%	1.5%	0.4%
65-	10,161	73.6	5.5	1.0%	10.2%	1.2%	0.4%

WBC

FY 2013

WBC ($10^3/\mu\text{L}$) (overall)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	3,781	3.7	8.6	-	0.3%	30.0%	13.5%
7-15	6,421	10.8	6.6	0.1%	2.3%	6.6%	2.2%
16-39	6,536	29.0	6.1	0.4%	7.2%	3.6%	1.4%
40-64	16,920	55.3	5.8	0.8%	9.0%	2.8%	0.9%
65-	18,955	73.5	5.8	0.7%	7.6%	2.0%	0.7%

WBC ($10^3/\mu\text{L}$) (male)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	1,942	3.7	8.6	-	0.3%	30.1%	14.2%
7-15	3,287	10.9	6.6	0.0%	2.6%	7.0%	2.2%
16-39	2,480	28.3	6.2	0.2%	6.1%	3.5%	1.5%
40-64	6,510	55.7	6.3	0.3%	4.7%	4.8%	1.6%
65-	8,637	73.4	6.0	0.4%	5.5%	2.6%	0.9%

WBC ($10^3/\mu\text{L}$) (female)							
Age	Number of examinees	Average age	Average WBC	$2.9 \times 10^3/\mu\text{L}$ and below	$3.9 \times 10^3/\mu\text{L}$ and below	$9.6 \times 10^3/\mu\text{L}$ and above	$11.1 \times 10^3/\mu\text{L}$ and above
0-6	1,839	3.7	8.6	-	0.2%	30.0%	12.9%
7-15	3,134	10.8	6.7	0.2%	2.1%	6.2%	2.3%
16-39	4,056	29.5	6.0	0.5%	7.9%	3.6%	1.3%
40-64	10,410	55.0	5.5	1.0%	11.7%	1.5%	0.4%
65-	10,318	73.5	5.6	1.0%	9.3%	1.4%	0.5%

The prevalence of WBC $2.9 \times 10^3/\mu\text{L}$ and below for FY 2011 was: 0.1% (0.1% for males and 0.1% for females) for age group 0-6; 0.2% (0.2% for males and 0.2% for females) for age group 7-15; 0.6% (0.3% for males and 0.9% for females) for age group 16-39; 0.8% (0.3% for males and 1.1% for females) for age group 40-64; 0.6% (0.3% for males and 0.9% for females) for age group 65 and above.

Further, there were no significant changes in average WBC among all age groups throughout FY 2011-2013.

Differential white blood count (neutrophil)

FY 2011

Neutrophil (count/ μ L) (overall)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	6,418	3.6	3,666	198	16,770	0.0%
7-15	11,470	11.0	3,373	324	13,876	0.0%
16-39	14,746	28.1	3,465	531	17,313	-
40-64	23,643	54.0	3,250	266	19,388	0.0%
65-	16,719	73.7	3,275	336	17,553	0.0%

Neutrophil (count/ μ L) (male)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	3,247	3.6	3,683	558	15,566	-
7-15	5,762	10.9	3,321	324	12,901	0.0%
16-39	5,962	27.7	3,428	531	14,977	-
40-64	9,559	54.5	3,494	379	15,222	0.0%
65-	7,495	73.4	3,423	336	17,553	0.0%

Neutrophil (count/ μ L) (female)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	3,171	3.6	3,649	198	16,770	0.1%
7-15	5,708	11.0	3,425	336	13,876	0.0%
16-39	8,784	28.3	3,490	581	17,313	-
40-64	14,084	53.7	3,085	266	19,388	0.0%
65-	9,224	73.8	3,156	474	15,709	0.0%

Neutrophil (count/ μ L) (overall)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	4,320	3.6	3,538	204	23,763	0.1%
7-15	7,429	10.9	3,299	664	17,052	-
16-39	8,455	28.6	3,437	637	28,578	-
40-64	19,473	55.0	3,213	554	20,720	-
65-	18,547	73.5	3,204	451	18,990	0.0%

Neutrophil (count/ μ L) (male)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	2,158	3.6	3,555	204	14,164	0.1%
7-15	3,806	10.8	3,259	822	17,052	-
16-39	3,219	27.9	3,397	805	12,797	-
40-64	7,687	55.4	3,467	736	20,720	-
65-	8,435	73.4	3,360	600	17,108	-

Neutrophil (count/ μ L) (female)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	2,162	3.6	3,521	315	23,763	0.0%
7-15	3,623	10.9	3,341	664	16,674	-
16-39	5,236	29.1	3,461	637	28,578	-
40-64	11,786	54.7	3,048	554	13,617	-
65-	10,112	73.6	3,074	451	18,990	0.0%

Differential white blood count (neutrophil)

FY 2013

Neutrophil (count/ μ L) (overall)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	3,777	3.7	3,476	525	14,067	-
7-15	6,417	10.8	3,341	315	15,498	0.0%
16-39	6,526	29.0	3,482	702	16,789	-
40-64	16,906	55.3	3,247	268	16,044	0.0%
65-	18,949	73.5	3,270	442	25,690	0.0%

Neutrophil (count/ μ L) (male)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	1,941	3.7	3,472	525	14,067	-
7-15	3,284	10.9	3,255	315	11,914	0.0%
16-39	2,476	28.3	3,421	736	16,789	-
40-64	6,505	55.7	3,499	603	14,328	-
65-	8,633	73.4	3,428	528	21,549	-

Neutrophil (count/ μ L) (female)						
Age	Number of examinees	Average age	Average neutrophil	Minimum value	Maximum value	500/ μ L and below
0-6	1,836	3.7	3,480	526	12,243	-
7-15	3,133	10.8	3,431	761	15,498	-
16-39	4,050	29.5	3,520	702	13,513	-
40-64	10,401	55.0	3,089	268	16,044	0.0%
65-	10,316	73.5	3,138	442	25,690	0.0%

Average absolute neutrophil counts derived from the differential white cell counts in FY 2011 were: 3,666/ μ L (3,683/ μ L for males and 3,649/ μ L for females) for age group 0-6; 3,373/ μ L (3,321/ μ L for males and 3,425/ μ L for females) for age group 7-15; 3,465/ μ L (3,428/ μ L for males and 3,490/ μ L for females) for age group 16-39; 3,250/ μ L (3,494/ μ L for males and 3,085/ μ L for females) for age group 40-64; 3,275/ μ L (3,423/ μ L for males and 3,156/ μ L for females) for age group 65 and above.

There were no significant differences in the average value of each age group throughout FY 2011-2013.

Differential white blood count (lymphocyte)

FY 2011

Lymphocyte (count/ μ L) (overall)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	6,418	3.6	4,134	500	14,687	0.0%
7-15	11,470	11.0	2,524	210	6,890	0.1%
16-39	14,746	28.1	2,105	351	6,247	0.0%
40-64	23,643	54.0	2,125	350	35,322	0.0%
65-	16,719	73.7	2,153	377	14,380	0.0%

Lymphocyte (count/ μ L) (male)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	3,247	3.6	4,055	500	14,687	0.0%
7-15	5,762	10.9	2,533	210	6,890	0.1%
16-39	5,962	27.7	2,232	390	6,247	0.0%
40-64	9,559	54.5	2,278	535	6,598	-
65-	7,495	73.4	2,172	468	14,380	0.0%

Lymphocyte (count/ μ L) (female)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	3,171	3.6	4,214	975	14,091	-
7-15	5,708	11.0	2,514	322	6,879	0.1%
16-39	8,784	28.3	2,018	351	5,611	0.0%
40-64	14,084	53.7	2,021	350	35,322	0.0%
65-	9,224	73.8	2,137	377	10,009	0.0%

FY 2012

Lymphocyte (count/ μ L) (overall)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	4,320	3.6	4,261	418	16,188	0.0%
7-15	7,429	10.9	2,575	199	8,981	0.0%
16-39	8,455	28.6	2,002	536	6,354	-
40-64	19,473	55.0	2,023	367	13,909	0.0%
65-	18,547	73.5	2,003	332	41,569	0.0%

Lymphocyte (count/ μ L) (male)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	2,158	3.6	4,202	865	14,211	-
7-15	3,806	10.8	2,582	199	8,981	0.0%
16-39	3,219	27.9	2,136	723	6,354	-
40-64	7,687	55.4	2,138	367	5,568	0.0%
65-	8,435	73.4	2,013	396	11,115	0.0%

Lymphocyte (count/ μ L) (female)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	2,162	3.6	4,321	418	16,188	0.0%
7-15	3,623	10.9	2,569	418	8,526	0.0%
16-39	5,236	29.1	1,920	536	5,628	-
40-64	11,786	54.7	1,949	396	13,909	0.1%
65-	10,112	73.6	1,994	332	41,569	0.0%

Differential white blood count (lymphocyte)

FY 2013

Lymphocyte (count/ μ L) (overall)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	3,777	3.7	4,330	945	15,912	-
7-15	6,417	10.8	2,633	687	7,425	-
16-39	6,526	29.0	2,020	371	5,396	0.0%
40-64	16,906	55.3	2,042	210	7,391	0.0%
65-	18,949	73.5	2,017	124	12,381	0.0%

Lymphocyte (count/ μ L) (male)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	1,941	3.7	4,304	954	15,912	-
7-15	3,284	10.9	2,633	696	6,210	-
16-39	2,476	28.3	2,122	371	5,375	0.1%
40-64	6,505	55.7	2,156	524	7,391	-
65-	8,633	73.4	2,029	124	12,381	0.0%

Lymphocyte (count/ μ L) (female)						
Age	Number of examinees	Average age	Average lymphocyte count	Minimum value	Maximum value	500/ μ L and below
0-6	1,836	3.7	4,357	945	13,244	-
7-15	3,133	10.8	2,634	687	7,425	-
16-39	4,050	29.5	1,958	452	5,396	0.0%
40-64	10,401	55.0	1,971	210	6,469	0.0%
65-	10,316	73.5	2,006	360	6,930	0.0%

Average absolute lymphocyte counts derived from the differential white cell counts in FY 2011 were: 4,134/ μ L (4,055/ μ L for males and 4,214/ μ L for females) for age group 0-6; 2,524/ μ L (2,533/ μ L for males and 2,514/ μ L for females) for age group 7-15; 2,105/ μ L (2,232/ μ L for males and 2,018/ μ L for females) for age group 16-39; 2,125/ μ L (2,278/ μ L for males and 2,021/ μ L for females) for age group 40-64; and 2,153/ μ L (2,172/ μ L for males and 2,137/ μ L for females) for age group 65 and above.

There was no significant change in the average value among age groups throughout FY 2011-2013. Further, there was no increase in the prevalence of 500/ μ L and below.

Differential white blood count (monocyte)

FY 2011

Monocyte (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	6,418	3.6	440	0	1,936
7-15	11,470	11.0	355	0	1,380
16-39	14,746	28.1	338	0	1,150
40-64	23,643	54.0	319	0	1,558
65-	16,719	73.7	330	0	1,369

Monocyte (count/ μ L) (male)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	3,247	3.6	454	0	1,683
7-15	5,762	10.9	366	0	1,380
16-39	5,962	27.7	361	0	1,150
40-64	9,559	54.5	363	0	1,558
65-	7,495	73.4	366	19	1,369

Monocyte (count/ μ L) (female)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	3,171	3.6	426	0	1,936
7-15	5,708	11.0	343	0	1,242
16-39	8,784	28.3	322	0	1,120
40-64	14,084	53.7	289	26	986
65-	9,224	73.8	301	0	1,293

FY 2012

Monocyte (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	4,320	3.6	445	0	2,580
7-15	7,429	10.9	350	0	1,455
16-39	8,455	28.6	329	0	1,017
40-64	19,473	55.0	317	0	1,729
65-	18,547	73.5	332	38	3,913

Monocyte (count/ μ L) (male)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	2,158	3.6	460	0	2,580
7-15	3,806	10.8	362	39	1,455
16-39	3,219	27.9	353	43	1,017
40-64	7,687	55.4	362	0	1,161
65-	8,435	73.4	368	44	3,913

Monocyte (count/ μ L) (female)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	2,162	3.6	431	30	1,708
7-15	3,623	10.9	337	0	1,372
16-39	5,236	29.1	314	0	988
40-64	11,786	54.7	289	29	1,729
65-	10,112	73.6	303	38	3,128

Differential white blood count (monocyte)

FY 2013

Monocyte (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	3,777	3.7	450	0	1,611
7-15	6,417	10.8	357	0	1,180
16-39	6,526	29.0	332	38	1,092
40-64	16,906	55.3	318	21	1,273
65-	18,949	73.5	334	58	1,989

Monocyte (count/ μ L) (male)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	1,941	3.7	465	0	1,462
7-15	3,284	10.9	365	43	1,174
16-39	2,476	28.3	356	38	1,092
40-64	6,505	55.7	362	21	1,273
65-	8,633	73.4	369	58	1,989

Monocyte (count/ μ L) (female)					
Age	Number of examinees	Average age	Average monocyte count	Minimum value	Maximum value
0-6	1,836	3.7	435	0	1,611
7-15	3,133	10.8	349	0	1,180
16-39	4,050	29.5	317	42	997
40-64	10,401	55.0	290	55	1,258
65-	10,316	73.5	304	79	1,827

Average absolute monocyte counts derived from the differential white cell counts in FY 2011 were: 440/ μ L (454/ μ L for males and 426/ μ L for females) for age group 0-6; 355/ μ L (366/ μ L for males and 343/ μ L for females) for age group 7-15; 338/ μ L (361/ μ L for males and 322/ μ L for females) for age group 16-39; 319/ μ L (363/ μ L for males and 289/ μ L for females) for age group 40-64; 330/ μ L (366/ μ L for males and 301/ μ L for females) for age group 65 and above.

There were no significant differences in the average value of all age groups throughout FY 2011-2013.

Differential white blood count (eosinophil)

FY 2011

Eosinophil (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	6,418	3.6	223	0	2,720
7-15	11,470	11.0	214	0	2,331
16-39	14,746	28.1	175	0	3,310
40-64	23,643	54.0	160	0	3,180
65-	16,719	73.7	153	0	5,852

Eosinophil (count/ μ L) (male)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	3,247	3.6	250	0	1,980
7-15	5,762	10.9	244	0	2,135
16-39	5,962	27.7	201	0	3,141
40-64	9,559	54.5	190	0	3,180
65-	7,495	73.4	179	0	5,852

Eosinophil (count/ μ L) (female)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	3,171	3.6	195	0	2,720
7-15	5,708	11.0	185	0	2,331
16-39	8,784	28.3	158	0	3,310
40-64	14,084	53.7	139	0	2,353
65-	9,224	73.8	133	0	3,110

FY 2012

Eosinophil (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	4,320	3.6	288	0	2,317
7-15	7,429	10.9	266	0	2,402
16-39	8,455	28.6	180	0	3,457
40-64	19,473	55.0	158	0	3,438
65-	18,547	73.5	150	0	6,024

Eosinophil (count/ μ L) (male)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	2,158	3.6	316	0	2,183
7-15	3,806	10.8	304	0	2,156
16-39	3,219	27.9	210	0	1,610
40-64	7,687	55.4	188	0	3,438
65-	8,435	73.4	174	0	6,024

Eosinophil (count/ μ L) (female)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	2,162	3.6	261	0	2,317
7-15	3,623	10.9	226	0	2,402
16-39	5,236	29.1	162	0	3,457
40-64	11,786	54.7	139	0	3,394
65-	10,112	73.6	131	0	1,808

Differential white blood count (eosinophil)

FY 2013

Eosinophil (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	3,777	3.7	301	0	2,793
7-15	6,417	10.8	275	0	3,737
16-39	6,526	29.0	176	0	4,563
40-64	16,906	55.3	160	0	4,717
65-	18,949	73.5	153	0	17,225

Eosinophil (count/ μ L) (male)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	1,941	3.7	333	0	2,793
7-15	3,284	10.9	314	0	3,737
16-39	2,476	28.3	206	0	4,563
40-64	6,505	55.7	190	0	4,618
65-	8,633	73.4	178	0	3,885

Eosinophil (count/ μ L) (female)					
Age	Number of examinees	Average age	Average eosinophil count	Minimum value	Maximum value
0-6	1,836	3.7	267	0	2,121
7-15	3,133	10.8	234	0	1,628
16-39	4,050	29.5	158	0	1,168
40-64	10,401	55.0	141	0	4,717
65-	10,316	73.5	132	0	17,225

Average absolute eosinophil counts derived from the differential white cell counts in FY 2011 were: 223/ μ L (250/ μ L for males and 195/ μ L for females) for age group 0-6; 214/ μ L (244/ μ L for males and 185/ μ L for females) for age group 7-15; 175/ μ L (201/ μ L for males and 158/ μ L for females) for age group 16-39; 160/ μ L (190/ μ L for males 139/ μ L for females) for age group 40-64;

153/ μ L (179/ μ L for males and 133/ μ L for female) for age group 65 and above.

There were no significant changes in the average value for all age groups throughout FY 2011-2013.

Differential white blood count (basophil)

FY 2011

Basophil (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	6,418	3.6	36	0	378
7-15	11,470	11.0	31	0	703
16-39	14,746	28.1	30	0	390
40-64	23,643	54.0	30	0	463
65-	16,719	73.7	28	0	1,286

Basophil (count/ μ L) (male)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	3,247	3.6	38	0	378
7-15	5,762	10.9	33	0	703
16-39	5,962	27.7	31	0	390
40-64	9,559	54.5	32	0	463
65-	7,495	73.4	29	0	1,286

Basophil (count/ μ L) (female)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	3,171	3.6	35	0	321
7-15	5,708	11.0	29	0	338
16-39	8,784	28.3	28	0	210
40-64	14,084	53.7	28	0	190
65-	9,224	73.8	27	0	636

FY 2012

Basophil (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	4,320	3.6	39	0	471
7-15	7,429	10.9	33	0	440
16-39	8,455	28.6	38	0	306
40-64	19,473	55.0	40	0	542
65-	18,547	73.5	38	0	2,021

Basophil (count/ μ L) (male)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	2,158	3.6	40	0	471
7-15	3,806	10.8	36	0	440
16-39	3,219	27.9	40	0	273
40-64	7,687	55.4	43	0	542
65-	8,435	73.4	41	0	2,021

Basophil (count/ μ L) (female)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	2,162	3.6	37	0	426
7-15	3,623	10.9	30	0	408
16-39	5,236	29.1	37	0	306
40-64	11,786	54.7	37	0	216
65-	10,112	73.6	36	0	395

Differential white blood count (basophil)

FY 2013

Basophil (count/ μ L) (overall)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	3,777	3.7	38	0	1,120
7-15	6,417	10.8	34	0	798
16-39	6,526	29.0	40	0	258
40-64	16,906	55.3	41	0	345
65-	18,949	73.5	39	0	683

Basophil (count/ μ L) (male)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	1,941	3.7	40	0	1,120
7-15	3,284	10.9	35	0	231
16-39	2,476	28.3	42	0	192
40-64	6,505	55.7	45	0	345
65-	8,633	73.4	41	0	590

Basophil (count/ μ L) (female)					
Age	Number of examinees	Average age	Average basophil count	Minimum value	Maximum value
0-6	1,836	3.7	36	0	340
7-15	3,133	10.8	32	0	798
16-39	4,050	29.5	39	0	258
40-64	10,401	55.0	39	0	230
65-	10,316	73.5	37	0	683

Average absolute basophil counts derived from the differential white cell counts in FY 2011 were: 36/ μ L (38/ μ L for males and 35/ μ L for females) for age group 0-6; 31/ μ L (33/ μ L for males and 29/ μ L for females) for age group 7-15; 30/ μ L (31/ μ L for males and 28/ μ L for females) for age group 16-39; 30/ μ L (32/ μ L for males and 28/ μ L for females) for age group 40-64; and 28/ μ L (29/ μ L for males and 27/ μ L for females) for age group 65 and above.

There were no significant changes in the average value of all age groups throughout FY 2011-2013.

【Summary of each medical exam items】

- 1) Since FY 2011 there has been an increase in the prevalence of males 70 kg and above and females 65 kg and above among 16 years old and above.
- 2) Overweight individuals with BMI 25 kg/m² and above were already 22.3% for age group 16-39. This prevalence increased with age and was 37.1% for age group 65 and above. The prevalence of overweight males was higher compared to the females for all ages. There were almost no changes for this prevalence for age group 65 and above from FY 2011-2013.
- 3) The prevalence for individuals with visceral fat accumulation (85 cm and above for males and 90 cm and above for females) was about 55% for males 40 and above throughout FY 2011-2013. The prevalence was about 21% for females of age 40-64, and about 27% for females of 65 years old and above, and the prevalence has not changed for the most part. The prevalence for individuals with visceral fat accumulation increased with age and there was more males compared to females among all age groups. Among males of age 16-39, there was lower prevalence of individuals with visceral fat accumulation in FY 2013 compared to FY 2011.
- 4) The prevalence of hypertensive individuals has decreased each year during the time period of FY 2011-2013 for all age groups and both genders. Among all age groups males had more hypertensive individuals compared to females.
- 5) The prevalence of individuals with urinary sugar positive of (1+) was 0.7% for age group 16-39 for FY 2011. This prevalence has increased with age and was 3.2% for age group 65 and above. Among all age groups, there were more males with (1+) or more urinary sugar positive compared to women. The prevalence of individuals with urinary sugar positive for age group 40 and above has decreased each year.
- 6) The prevalence of individuals with urinary protein positive of (1+) was 1.1% for age group 16-39 in FY 2011. This prevalence then doubled in FY 2012 to 2.2%, and has also increased in FY 2013 to 2.4%. There were no clear changes in frequency for age group 40 and above throughout FY 2011-2013.
- 7) The positive prevalence of individuals with (1+) urine occult blood (with the exception of during menstruation) for each age group in FY 2011 was 3.0% for age group 16-39; 5.6% for age group 40-64; and 7.4% for age group 65 and above. The positive frequency of individuals with urine occult blood increased with age. This tendency was about the same compared to FY 2012 and FY 2013.
- 8) The average creatinine value of each age group showed about the same value for both genders from FY 2011-2013. This value had a tendency to increase with age. For all age groups and both genders, high value of creatinine (1.35 mg/dL and above for males and 1.15 mg/dL and above for females) that indicates a decrease in kidney function was less than 1% among individuals of 64 year olds and younger.

- 9) The average value of eGFR showed the same value for both genders throughout FY 2011-2013, and decreased with age. The prevalence of individuals with less than eGFR 60 mL/ min/1.73 m² indicating light decrease in kidney function in FY 2011 was: 0.2% for age group 16-39; 6.6% for age group 40-64; and 28.6% for age group 65 and above, the highest prevalence among all groups. This prevalence was similar in FY 2012 and FY 2013.
- 10) The prevalence of individuals with impaired glucose tolerance with fasting plasma glucose of 110 mg/dL and above was 1.9% for age group 16-39 in FY 2011. This prevalence increased with age and was 26.1% for age group 65 and above. The prevalence of individuals with impaired glucose tolerance was higher among females compared to males among all age groups. The prevalence of individuals with 130 mg/dL and above for age group 40 and above has decreased each year and there has been a sign of improvement in blood sugar management.
- 11) The prevalence of individuals with impaired glucose tolerance with levels of HbA1c 6.0 % and above was 1.6% for age groups 16-39 in FY 2011. This prevalence increased with ages and is 18.7% for age group 65 and above. There has been an increase among all ages each year. For all age groups, females had higher prevalence of individuals with impaired glucose tolerance compared to males. However, the prevalence of levels HbA1c 8.0% and above have decreased each year. There has been an increase in the number of individuals with impaired glucose tolerance, but there has been a sign of improvement in blood sugar management.
- 12) Lipid metabolism abnormality that includes High LDL cholesterol blood disease, hypertriglyceridemia, and low HDL cholesterol blood disease were respectively about 13%, 7%, and 3% for the age group 7-15, and have increased with age. On the other hand, the prevalence has slightly decreased in FY 2012 for age group 65 and above.
- 13) Results above the reference inferral for AST, ALT, and γ -GT (i.e., ≥ 51 U/L) were commonly found among males for age group 40-64. This prevalence has deteriorated from FY 2011 to FY 2012 for age group 40-64 that displayed higher frequencies, but this level returned to its initial level in FY 2013, indicating some improvement.
- 14) The prevalence of individuals with hyperuricemia with a uric acid level of 7.1mg/dL and above for males was 4.7% for age group 7-15 and 18.5% for age group 16-39. There were more males with hyperuricemia for all age groups compared to females and this prevalence has increased through FY 2011-2013.
- 15) Since FY 2011, there were no changes in the value of RBC, WBC or platelet count among children and adults.
- 16) Among the differential white blood count the actual average value of neutrophil, lymphocyte, monocyte, eosinophil and basophil did not display significant changes throughout FY 2011-2013 for each age group.

The implementation status of the Mental Health and Lifestyle Survey

Reported on 25 December 2014

1. FY 2013 Survey response and status of support (as of Oct 31st, 2014)

1.1 Response state

Number of responses and response rate

Category	Number of people	Number of responses	Response rate
Children	26,513	9,495	35.8%
General	185,859	46,386	25.0%
Total	212,372	55,881	26.3%

1.2 Response results (tentative)

Refer to the separate sheet “2013 Mental Health and Lifestyle Survey’ debrief report (tentative).”

1.3 Status of support

1.3-1 Support by phone calls

From the responses, we determine individuals who we assume require support, and clinical professionals such as clinical psychologists, public health nurses, and nurses call them to provide support in order to resolve issues regarding mental health and lifestyle habits.

A) Scale of support

Category	Number of people in need of support ¹	Required support rate	Number of correspondence ²	Correspondence rate	Number of people who received support ³	Support completion rate
Children	449	4.7%	449	100%	398	88.6%
General	3,018	6.5%	3,018	100%	2,652	87.9%
Total	3,467	6.2%	3,467	100%	3,050	88.0%

1) Number of people who require support

Children : Individuals who score 20 points or more on SDQ (regarding children’s emotion and action).

General Public : Individuals who score 13 points or more on K6 (Overall mental status) and score 50 points or more on PCL (Trauma reaction), or those who score 17 points or more on K6 regardless of PCL score.

Number of people who require support: Those who were deemed to require support by Oct 31st.

2) Number of correspondences

Those to whom at least one phone call has been made (including unanswered phone calls) according to response content, and those who have not listed their phone number on the survey.

3) Number of supported people

Those for whom support has been completed. These also include people for whom support has been completed via written document (refer to “B. Written support”).

B) Support by items other than scale

Category	Number of people in need of support ¹	Required support rate	Number of correspondences ²	Correspondence rate	Number of people who received support ³	Support completion rate
Children	39	0.4%	39	100%	37	94.9%
General	820	1.8%	820	100%	722	88.0%
Total	859	1.5%	859	100%	759	88.4%

2) 3) Refer to A) above

4) Number of people who require support

Individuals that were determined to have higher level emergencies among those who require support based on the contents of free response and those shown on the margins of the survey.

Those who have conditions such as high blood pressure and diabetes who are not currently attending a hospital as an outpatient with a BMI level of 27.5 or above and have experienced a 3kg or above body weight increase (“General public”).

Those with conditions such as high blood pressure and diabetes who are currently not attending a hospital as an outpatient, while drinking 3 go (around half a liter) of alcohol daily (“General public”).

Number of people who require support: Those who were determined to require support by Oct 31st.

1.3-2 Written support

As a consultation counter, we have sent a situation confirmation document with a post card enclosed for reply in order to confirm the current health status and the necessity of phone consultation as well as to provide information regarding the mental health and lifestyle habits survey hotline.

A) Support by scale: Support is provided to individuals whose SDQ, K6, and PCL values go above the reference values in previous studies (SDQ: 16, K6:13, PCL: 44) and who do not fall within those intended for phone support.

Category	Number of people who will receive a situation confirmation document	Number of responses	Response rate	Number of people who require phone support ⁵	Phone support	Support completion rate
Children	634	267	42.1%	26	21	80.8%
General	5,113	2,002	39.2%	462	441	95.5%
Total	5,747	2,269	39.5%	488	462	94.7%

5) Number of people who require phone support

Those who request phone consultation and those that were determined to require phone support based on content written in space for correspondence.

B) Support for individuals who apply to the criteria below in terms of items other than the scale and who do not fall under those mentioned above who require support.

Support criteria :

1. Individuals who have not consulted necessary medical institutions.
2. Individuals who are not satisfied with the quality of sleep, are less active and feel depressed during the day and have not received medical consultation.
3. Individuals with lower urgency levels among those who have been determined to require support based on free responses and contents included in the margin of page.

Category	Number of people who will receive a situation confirmation document	Number of responses	Response rate	Number of people who require phone support ⁵	Number of support cases	Support completion rate
Children	108	45	41.7%	9	9	100%
General	2,433	1,024	42.1%	133	121	91.0%
Total	2,541	1,069	42.1%	142	130	91.5%

5) Refer to A) above

1.3-3 Support provided in coordination with municipalities

Situations of individuals who were determined to require continuous support are shared with municipalities. For continuous support, municipalities coordinate with the Fukushima Kokoro no Care Center (Fukushima Mental Health Care Center) as necessary based on the judgment of each municipality.

Number of cases handed over to municipalities: 61

1.3-4 Other support

We also provide consultation to individuals who directly call the mental health and lifestyle habits survey hotline.

Support provided upon request: 25

1.4 Future policies regarding support

Among individuals that are subject to telephone support and written support, those who were not able to receive phone support will instead receive an information pamphlet.

For CAGE (question items regarding alcohol intake), a pamphlet regarding alcohol intake will be sent to individuals who correspond to 2 items or more but do not meet the criteria mentioned above for requiring support.

2. The results of interview survey (general public) FY 2013

In succession of FY 2012, in order to establish a support structure to provide support regarding mental health and lifestyle habits, we have conducted an interview survey among 38 people who have responded to the FY 2012 survey and 13 people who have been examined at psychiatric organizations.

As a result, the validity of PCL points (50 points and above) that are part of the current phone support criteria has been confirmed. In addition, the points that require attention for phone support were clarified based on comprehensive judgment.

3. The implementation plan for the FY 2014 survey

3.1 The approach for the FY 2014 survey

During the three-year period from FY 2011 to FY 2013, we have conducted a detailed factual investigation regarding the mental health and lifestyle habits of residents.

For the FY 2014 survey, we eliminated half of the original question items for the aim of improving the response rate by lightening the burden of respondents, and also in order to narrow down question items to those directly connected to care. Furthermore, in order to reflect the feedbacks from the actual support operations, we have added the most requested question items from 13 municipalities.

3.2 Objective

Based on the survey results from FY 2011 to FY 2013, we shall continue to monitor the transition of mental health and lifestyle habits and provide support.

Furthermore, as mentioned above, we shall provide more effective care to residents by narrowing items down to those directly related to support.

3.3 Questionnaire survey

3.3-1 Group : Residents (around 210 thousand people) of the evacuation area (as of the time of mailing of the FY 2011 questionnaire survey)

3.3-2 Methods : Questionnaire surveys (self-administering or response by guardian) were distributed by postal mail.

3.3-3 Categories

Category	Targets	Response format
General public	Those born before April 1 st 1999	self-administering
Middle school students	Those born between April 2 nd 1999 and April 1 st 2002	Response by guardian (partially self-administering)
Elementary school students	Those born between April 2 nd 2002 and April 1 st 2008	Response by guardian
Ages 4-6	Those born between April 2 nd 2008 and April 1 st 2011	Response by guardian
Ages 0-3	Those born between April 2 nd 2011 and April 1 st 2014	Response by guardian

3.3-4 Main survey items

- The current mental and physical health status
- Lifestyle habits (Diet, sleep, smoking, exercise, etc.)
- Recent behavior
- Current living situation, human relations (“general public”)

3.3-5 Mailing period : To be mailed out sequentially starting from the end of January 2015

3.3-6 Correspondence after the survey

- Doctors from the Medical University will evaluate and analyze the response contents. Those who were deemed to require consultation and support based on their mental health and lifestyle habits will receive phone support by a mental health support team composed of professionals such as clinical psychiatrists, nurses and public health nurses.
- Those determined to require an examination by a doctor based on services such as phone consultation, will be introduced to “Registered doctors (※Refer to the next item “4 Registered doctors”) of a medical institution within the prefecture. Furthermore, if continuous support is required, we shall consider and provide the

required support in coordination with the municipalities in the evacuation areas. In this regard, if the individual is determined to require mental care visits, we shall provide further support in coordination with Fukushima Kokoro no Care Center.

- If an individual is determined to require further mental health care by a specialist based on the judgment of a registered doctor, the Medical University will take action (regular medical practice). Specifically, children will receive support from the Kodomo no Kokoro Shinryo Center (Children's mental consultation center), while adults will receive support from the psychosomatic department.
- We shall provide support by a radiation health consultation team composed of instructors from the Medical University in cases where the mental health support team receives consultations regarding radiation and it is determined that support from applicable medical specialists are required. Furthermore, among the health consultations caused by the effect of radiation, if direct examination is required, we shall consider providing support by medical specialists.

3.4 Questionnaire survey sheet (draft) (Refer to separate document)

3.5 Schedule

Year/months Implementation items		2014		2015		
		Oct-Dec		Jan	Feb	Mar
Questionnaire survey	Printing and sending out questionnaires					
	Collecting and inputting data of questionnaires					
Consultation/support						

4. Registered doctor

4.1 Definition

A doctor who is assigned in cases where an individual is determined to require examination by medical specialists such as psychiatrists and pediatricians based on results of the survey regarding mental health and lifestyle habits.

4.2 Requirements for registration

Must have followed lecture courses hosted or accredited by the Medical University.

4.3 Number of registered doctors (as of Oct 31st 2014)

143 doctors (from 83 medical institutions)

【Reference documents】 Regarding the distribution of reference points in the FY 2013 survey

Children

Items [Reference points]	Distribution in previous research	Definitive value for the 2011 survey As of Oct 31 st 2012 Number of valid responses (14,209)	Definitive value for the 2012 survey As of Oct 31 st 2013 Number of valid responses (8,988)	Tentative value for the 2013 survey As of Oct 31 st 2014 Number of valid responses ⁴ (7,784)
SDQ (children's emotions and behavior) [16 points or more]	9.5% ¹	21.2%	15.4%	14.2% ⁴

General public

Items [Reference points]	Distribution in previous research	Definitive values for the 2011 survey As of Oct 31 st 2012 Number of valid responses (K6 : 59,807) (PCL : 60,704)	Definitive values for the 2012 survey As of Oct 31 st 2013 Number of valid responses (K6 : 45,229) (PCL : 43,743)	Tentative values for the 2013 survey As of Oct 31 st 2014 Number of valid responses ⁴ (K6 : 38,069) (PCL : 38,161)
K6 (Generic assessment of mental health) [13 points or more]	3.0% ²	14.6%	11.7%	9.7% ⁴
PCL (trauma reactions) [44 points or more]	20.1% ³	21.6%	17.4%	15.9% ⁴

- 1) Children of ages 4-12 in regional communities of Japan
Matsuishi T, et al. (2008) Scale properties of the Japanese version of the Strengths and Difficulties Questionnaire (SDQ): a study of infant and school children in community samples. Brain & Development. 30: 410-415.

- 2) Local residents in Japan
Kawakami N, distribution and related factors of mental health conditions based on the nationwide K6 questionnaire survey.
The 2006 Health Labour Sciences Research Grant (Research on Applied Use of Statistics and Information). Research on the consideration of a system that understands and analyzes statistical information regarding the health condition of citizens from a household perspective. Divided research document
- 3) Frequency among rescue, recovery and cleanup workers after the 2001 World Trade Center Terrorist Attack in New York City, the United States.
Stellman JM, et al. (2008) Enduring mental health morbidity and social function impairment in World Trade Center rescue, recovery, and cleanup workers: the psychological dimension of an environmental health disaster. *Environmental Health Perspectives*. 116(9): 1248–1253.
- 4) Since these are tentative values, they may differ from definitive values that will be reported later.

Overview of the tentative results of the FY 2013 Mental Health and Lifestyle Survey

1. Objective

Since the Great East Japan Earthquake and the Fukushima Daiichi nuclear disaster that occurred on March 11th 2011, a Mental Health and Lifestyle Survey for prefectural inhabitants has been conducted from 2011 in order to understand the effects of mental pain and trauma caused by frightening experiences including fear of radiation, living in evacuation centers, and loss of property, and to provide support through appropriate medical care.

For mental health care, middle/long-term countermeasures are required. In order to accomplish this, we must communicate to those that we continue to monitor and support their mental and physical health. Thus, we have again conducted the survey by questionnaires as it is necessary to understand the changes and factors in the mental and physical condition of residents and provide appropriate support.

2. Methods

1) Population

Those of the FY 2013 survey include residents in areas such as the evacuation zones designated by the government as of March 11th 2011 and those born in those areas before April 1st 2013. Specifically, this survey was for 212,372 citizens who are registered as residents in the following municipalities: Hirono town, Naraha town, Tomioka town, Kawauchi village, Okuma town, Futaba town, Namie town, Katsurao village, Iitate village, Minami Soma city, Tamura city, Kawamata town and parts of Date city (areas related to specified locations recommended for evacuation).

Ages 0-3 version: Individuals born from April 2 nd 2010 to April 1 st 2013	4,164
Ages 4-6 version: Individuals born from April 2 nd 2007 to April 1 st 2010	5,169
Elementary school version : Individuals born from April 2 nd 2001 to April 1 st 2007	11,167
Middle school version : Individuals born from April 2 nd 1998 to April 1 st 2001	6,013
General public version : Individuals born before April 1 st 1998	185,859

2) Methods

We divided the population as shown above and mailed the questionnaire (self-administered or filled out by a guardian).

3) Data collection period

The participants were required to respond during the period of Feb 5th 2014 to Feb 28th 2014. The number of surveys entered into the system by July 9th 2014 was 34,793.

4) Number of valid responses

For the tentative version, the numbers of valid responses subject to the collection (valid response rate) were the following: 1,281 individuals (30.8%) for the ages 0-3 version;

1,565 individuals (30.3%) for the ages 4-6 version; 3,001 individuals (26.9%) for the elementary school version; 1,348 individuals (22.4%) for the middle school version; and 27,598 individuals (14.8%) for the general public version.

The results were collected for each item by questionnaire. The survey results are indicated in the report. As there are missing values in each item, the total may not match the abovementioned valid responses. Moreover, since the ratios (%) in the report have been rounded to the nearest whole number, there are instances where the total does not add up to 100%. Since figures of this collection indicated in this paper are tentative, they may differ from the ones that will be reported in the definitive version.

3. Summary of Tentative Values in the Collection of the FY 2013 Survey

For the survey regarding children's emotions and behavior (SDQ), elementary school children and children aged 4-6 had higher ratios of those who have more than the reference point (16 points or more) compared to those in middle school. Among all ages, boys/males (ages 4-6: 16.1%, elementary school: 16.1%, and middle school 15.8%) tend to have higher ratios of those who have more than the reference point compared to girls/females (ages 4-6: 12.6%, elementary school: 12.5%, and middle school: 11.0%).

For the overall mental health condition (K6) and trauma reaction (PCL), those with percentages higher than the reference point (K6:13 points or more, PCL:44 points or more) were the lowest among those aged 10-19, and the highest among those aged 70 and more (K6: Ages 10-19 4.4%, ages 70 and above 11.5%, PCL: ages 10-19 3.8%, ages 70 and above 24.7%). Furthermore, females (K6: 11.5%, PCL: 18.2%) had a higher tendency to display percentages above reference point compared to males (K6:8.9%, PCL: 15.9%).

As for sleeping hours, the average values for ages 0-3, 4-6, elementary school students, middle school students and the general public was 10h 0min, 9h 46min, 8h 55min, 7h 11min, 7h 2min, respectively. As the age group increased, there was a tendency for the sleeping hours to become shorter.

As for exercise, the percentage of those who "almost never exercise (excluding exercises in physical education class for elementary and middle school children)" was 10.4% for ages 2-3, 14.6% for ages 4-6, 40.4% for elementary school children, 31.9% for middle school children, and 44.8% for the general public. Although these cannot be compared unconditionally, there was a higher tendency for elementary school students and the general public to respond that they "almost never exercise".

(Note) The question about exercise habits was for individuals over 2 years old.

FY 2013 Fukushima Health Management Survey

Mental Health and Lifestyle Survey

Result Report

(Tentative)

Fukushima Medical University

Radiation Medical Science Center

(December 2014)

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FY 2013 Fukushima Health Management Survey

Mental Health and Lifestyle Survey

Collected results by questionnaire type

(Tentative)

The result summary of the FY 2013 Mental Health and Lifestyle Survey

1. Objective

Ever since the Great East Japan Earthquake and Fukushima Daiichi nuclear disaster of March 11 in 2011, we have conducted the Fukushima Health Management Survey, Mental Health and Lifestyle Survey from 2011 and have been providing support in order to understand the mental health and lifestyle habits and provide appropriate care to citizens who endured mental pain and trauma from terrifying experiences such as concerns regarding radiation, evacuation life and loss of property.

For mental health care, middle to long-term countermeasures are required. In order to accomplish this, we must convey that we will continue to monitor and support their mental and physical health. In order to understand the changes and factors of their mental and physical health and provide appropriate support according to the situation, this study conducted another questionnaire survey this year.

2. Method

1) Population

Those in the FY 2013 survey are individuals who were born by Apr 1st 2013 and reside in nationally designated evacuation areas at the time of Mar 11 2011. Specifically, these include 212,372 registered citizens of the following municipalities: Hirono town, Naraha town, Tomioka town, Kawauchi village, Okuma town, Futaba town, Namie town, Katsurao village, Iitate village, Minamisoma city, Tamura city and Kawamata town and parts of Date city (designated areas for recommended evacuation).

For age group 0-3:

Individuals born during the time period from Apr 2 nd 2010 to April 1 st 2013	4,164
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For age group 4-6:

Individuals born during the time period from Apr 2 nd 2007 to April 1 st 2010	5,169
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For elementary school students:

Individuals born during the time period from Apr 2 nd 2001 to April 1 st 2007	11,167
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For middle school students:

Individuals born during the time period from Apr 2 nd 1998 to April 1 st 2001	6,013
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For the general public: Individuals born before Apr 1 st 1998	185,859
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2) Method

We sent questionnaires (answered by self or by guardian) based on the target categories listed above.

3) Period of totalization

Participants had to answer the questionnaire during the time period from Feb 5th 2014-Feb 18th 2013. 34,793 data entries were made by Jul 9th 2013.

4) Number of valid responses

Valid number of responses (valid response rate) that were collected for the tentative version of the questionnaire was: 1,281 (30.8%) for age group 0-3; 1,565 (30.3%) for age group 4-6; 3,001 (26.9%) for elementary school students; 1,348 (22.4%) for middle school students; and 27,598 (14.8%) for the general public.

The results for each item were collected by questionnaire type. The collected results are shown below in the result report. Further, since there are missing values for each item, the total may not match the above mentioned number of valid responses. Further, the total may not add up to 100% since the ratios of the report have been rounded to whole numbers. Since the collected values are tentative, it is possible that the final version may contain different values.

Results of the FY 2013 Mental Health and Lifestyle Survey (0-3)

Among 4,164 people (age group 0-3) in the survey regarding mental health and lifestyle habits, the valid response count was 1,281 (30.8%). The breakdown was 654 (51.1%) males and 627 (48.9%) females and the average age was 2.0 years old.

As for the current address, 910 (71.1%) lived within the prefecture and 369 (28.9%) outside the prefecture.

1. The health condition of the child (Q1)

The ratios for the health condition were: 415 (33.1%) for 'Very good'; 533 (42.5%) for 'good'; 292 (23.3%) for 'normal'; 14 (1.1%) for 'bad'; and 0 (0.0%) for 'very bad'.

2. The current height and weight of the child (Q2)

The average height/weight of boys were: 78.1cm/11.0kg for 1 year olds; 88.2cm/12.7kg for 2 year olds; and 95.8cm/15.0kg for 3 year olds. The average height/weight of girls were: 77.8cm/11.0kg for 1 year olds; 86.4cm/12.6kg for 2 year olds; and 94.4cm/14.2kg for 3 year olds.

3. Currently treated diseases (Q3)

For currently treated diseases, 917 (74.1%) answered 'no' while 321 (25.9%) answered 'yes'.

The breakdown (multiple answers possible) of diseases for those who answered 'yes' are shown in Table 1 below.

Table 1 The breakdown of currently treated diseases

Disease	Count
Common cold	134
Atopic dermatitis	54
Asthma	35
Otitis media	35
Odontopathy	31
Allergic rhinitis	21
Asthma, atopic dermatitis, allergies, allergic conditions other than nasal inflammation	16
Influenza	11
Sinusitis/ empyema	6
Epilepsy	2
ADHD	2
Other	44

(Multiple answers)

4. Experience of hospitalization (Q4)

For experience of hospitalization, 982 (77.2%) answered 'no' while 290 (2.8%) answered 'yes'.

The breakdown of diseases for those who answered 'yes' (multiple answers) are the following in Table 2.

Among those who responded 'yes' to experience of hospitalization, 176 answered that they did not become hospitalized due to a disease within the year (responded 'none'). The breakdown of diseases for those who were hospitalized within the year is shown below in Table 3.

Table 2 Breakdown of diseases during hospitalization, Table 3 Breakdown of diseases during hospitalization within the past 1 year

Disease	Count
Respiratory syncytial virus infection	79
Pneumonia	43
Bronchitis	32
Common cold	28
Gastroenteritis	27
Asthma	24
Rotavirus infection	23
Febrile convulsion	22
Mycoplasma pneumonia	20
Inguinal hernia	10
Kawasaki disease	9
Influenza	8
Other	82

(Multiple answers)

Disease	Count
Respiratory syncytial virus infection	24
Pneumonia	16
Asthma	11
Bronchitis	9
Rotavirus infection	9
Common cold	8
Febrile convulsion	8
Gastroenteritis	6
Inguinal hernia	4
Mycoplasma pneumonia	3
Influenza	2
Kawasaki disease	1
Other	20

(Multiple answers)

5. Medical exam experience (Q5)

- Those who answered 'no' for experience of CT scans were 1,192 (93.3%), 'yes' were 54 (4.2%) and 'I don't know' were 31 (2.4%).
- Those who answered 'no' for experience of examinations using X-rays (except CT and X-ray examination) were 1,168 (92.8%), 'yes' were 50 (4.0%) and 'I don't know' were 40 (3.2%).

Among those who answered 'yes', 38 had a fluoroscopy, 7 had an angiography, and 2 had a nuclear medicine scan.

6. Experience of radiation therapy treatment (Q6)

For experience of radiation therapy treatment, those who answered 'no' were 1,251 (97.8%), 'yes' were 11 (0.9%), and 'I don't know' were 17 (1.3%).

7. Sleeping hours and naps (Q7)

- The average going-to-bed time was 9:11 PM and the average waking time was 7:14 AM. The average sleeping time was 10 hours.

- 2) For naps (does your child take naps?), those who answered 'no' were 181 (14.2%) and 'yes' were 1,091 (85.8%). The average nap time was 1 hour and 52 minutes.

8. Regular amount of exercise (Q8)

For exercise (what is your regular amount of exercise? (age group 2 and above during the time of questionnaire)) : those who answered 'almost every day' were 370 (43.4%); '2-4 times a week' were 283 (33.2%); 'once a week' were 110 (12.9%); and 'barely exercise' were 89 (10.4%).

9. Diet (Q9)

- 1) For breast milk (does your child drink breast milk?), those who answered 'yes' were 193 (15.7%) and 'no' were 1,036 (84.3%).
- 2) The frequency of consuming food (drinks), breakfast, eating out, and pre-cooked food (among those who were 1 year old and above at the time of questionnaire) were as shown in Table 4 (next page).

10. Child rearing (Q10)

For child rearing (do you ever lose confidence in child rearing?), those who answered 'yes' were 161 (12.6%), 'no' were 566 (44.3%), and 'cannot say' were 551 (43.1%).

Table 4 Frequencies of eating (drinking) pre-cooked foods, breakfast and eating out among the age group 1-3.

(Upper row is the number of individuals/lower row is percentage)

		I don't eat	Less than once a week	1-2 times a week	3-4 times a week	5-6 times a week	Everyday	Total
Breakfast		10 (0.8%)	0 (0.0%)	2 (0.2%)	18 (1.5%)	36 (3.0%)	1,138 (94.5%)	1,204
Eating out (excluding school lunch)		124 (10.4%)	688 (57.6%)	319 (26.7%)	26 (2.2%)	2 (0.2%)	35 (2.9%)	1,194
Pre-cooked foods		112 (9.4%)	468 (39.1%)	445 (37.2%)	139 (11.6%)	22 (1.8%)	11 (0.9%)	1,197
Cooked rice		1 (0.1%)	0 (0.0%)	6 (0.5%)	31 (2.6%)	97 (8.0%)	1,071 (88.8%)	1,206
Bread		26 (2.2%)	169 (14.1%)	408 (34.0%)	260 (21.7%)	133 (11.1%)	203 (16.9%)	1,199
Fish dishes		22 (1.8%)	119 (9.9%)	560 (46.7%)	388 (32.4%)	78 (6.5%)	31 (2.6%)	1,198
Meat	Chicken	35 (2.9%)	214 (17.8%)	658 (54.9%)	257 (21.4%)	26 (2.2%)	9 (0.8%)	1,199
	Beef, pork	56 (4.7%)	151 (12.6%)	508 (42.3%)	416 (34.7%)	53 (4.4%)	16 (1.3%)	1,200
	Ham, sausage	103 (8.6%)	223 (18.7%)	452 (38.0%)	316 (26.5%)	69 (5.8%)	28 (2.4%)	1,191
Vegetables	Green vegetables	95 (7.9%)	163 (13.6%)	381 (31.9%)	313 (26.2%)	136 (11.4%)	108 (9.0%)	1,196
	Red and yellow vegetables	35 (2.9%)	77 (6.4%)	281 (23.4%)	410 (34.1%)	220 (18.3%)	179 (14.9%)	1,202
	Hypochromic vegetable	40 (3.3%)	90 (7.5%)	270 (22.5%)	435 (36.2%)	208 (17.3%)	158 (13.2%)	1,201
	Vegetable juice	402 (33.6%)	306 (25.6%)	213 (17.8%)	127 (10.6%)	60 (5.0%)	88 (7.4%)	1,196
Fruits	Fruits	43 (3.6%)	103 (8.6%)	244 (20.3%)	285 (23.7%)	218 (18.1%)	309 (25.7%)	1,202
	Fruit juice	209 (17.5%)	274 (22.9%)	262 (21.9%)	214 (17.9%)	109 (9.1%)	129 (10.8%)	1,197
Soy bean	Natto	169 (14.0%)	206 (17.1%)	363 (30.1%)	277 (23.0%)	125 (10.4%)	64 (5.3%)	1,204
	Miso soup	50 (4.1%)	67 (5.6%)	191 (15.9%)	248 (20.6%)	206 (17.1%)	443 (36.8%)	1,205
	Tofu dishes	53 (4.4%)	181 (15.1%)	434 (36.1%)	327 (27.2%)	146 (12.2%)	60 (5.0%)	1,201
	Boiled beans dish	490 (40.9%)	454 (37.9%)	182 (15.2%)	59 (4.9%)	11 (0.9%)	3 (0.3%)	1,199
Milk		229 (19.1%)	121 (10.1%)	149 (12.4%)	173 (14.4%)	121 (10.1%)	405 (33.8%)	1,198
Soy milk		940 (78.1%)	159 (13.2%)	51 (4.2%)	24 (2.0%)	11 (0.9%)	18 (1.5%)	1,203
Yogurt, fermented milk drink		52	104	253	315	157	326	1,207

	(4.3%)	(8.6%)	(21.0%)	(26.1%)	(13.0%)	(27.0%)	
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Since there are missing values for each item, totals may not match.

For age group 0-3

Results of the FY 2013 Mental Health and Lifestyle Survey (Age group 4-6)

Among the 5,169 people for the survey regarding mental health and lifestyle habits (age group 4-6), there were 1,565 (30.3%) valid responses. The breakdown was 779 (49.8%) boys and 786 (50.2%) girls with an average age of 4.8 years old.

As for the current address, 1,053 (67.5%) lived within the prefecture and 507 (32.5%) lived outside the prefecture.

1. The health condition of the child (Q1)

The ratios for the health condition were: 404 (26.4%) for 'Very good'; 651 (42.5%) for 'good'; 458 (29.9%) for 'normal'; 16 (1.0%) for 'bad'; and 3 (0.2%) for very bad.

2. The current height and weight of the child (Q2)

The average height/weight of boys was: 102.7cm/16.8kg for 4 year olds (as of Apr 1st 2014), 109.2cm/18.7kg for 5 year olds and 115.7cm/21.4kg for 6 year olds. The average height/weight for girls were: 101.9cm/16.3kg for 4 year olds, 108.5cm/18.4kg for 5 year olds, and 114.6cm/20.8kg for 6 year olds.

3. Currently treated diseases (Q3)

For currently treated diseases, 978 (64.8%) answered 'no' while 531 (35.2%) answered 'yes'.

The breakdown of diseases for individuals who answered 'yes' are shown in Table 5.

Table 5 The breakdown of currently treated diseases

Disease	Count
Common cold	155
Atopic dermatitis	107
Odontopathy	98
Allergic rhinitis	96
Atopic dermatitis	80
Otitis media	47
Sinusitis/ empyema	32
Asthma, atopic dermatitis, allergies, allergic conditions other than nasal inflammation	24
Influenza	23
Epilepsy	9
ADHD	3
Other	65

(Multiple answers)

4. Experience of hospitalization (Q4)

For experience of hospitalization, 1,103 (71.3%) answered 'no' while 443 (28.7%) answered 'yes'.

The breakdown of diseases for those who answered 'yes' (multiple answers) are the following in Table 6.

Among those who responded 'yes' to experience of hospitalization, 359 answered that they did not become hospitalized due to a disease within the past year (responded 'none'). The breakdown of those who were hospitalized within the past year is shown below in Table 7.

Table 6 Breakdown of diseases during hospitalization, Table 7 Breakdown of diseases during hospitalization within the past year

Disease	Count
Pneumonia	127
Respiratory syncytial virus infection	89
Mycoplasma pneumonia	80
Bronchitis	54
Asthma	53
Gastroenteritis	46
Rotavirus infection	43
Febrile convulsion	41
Common cold	30
Influenza	26
Inguinal hernia	23
Kawasaki disease	15
Other	83

(Multiple answers)

Disease	Count
Pneumonia	15
Mycoplasma pneumonia	9
Febrile convulsion	8
Inguinal hernia	8
Asthma	6
Bronchitis	6
Common cold	5
Gastroenteritis	5
Respiratory syncytial virus infection	4
Rotavirus infection	4
Kawasaki disease	4
Influenza	3
Other	19

(Multiple answers)

5. Medical exam experience (Q5)

- Those who answered 'no' for experience of CT scans were 1,411 (90.8%), 'yes' were 96 (6.2%) and 'I don't know' were 47 (3.0%).
- Those who answered 'no' for experience of examinations using X-rays (excluding CT and X-ray examination) were 1,406 (91.3%), 'yes' were 84 (5.5%) and 'I don't know' were 50 (3.2%).

Among those that answered 'yes', 65 had a fluoroscopy, 9 had an angiography, and 2 had a nuclear medicine scan.

6. Experience of radiation therapy treatment (Q6)

For experience of radiation therapy treatment, those who answered 'no' were 1,509 (97.2%), 'yes' were 14 (0.9%) and 'I don't know' were 30 (1.9%).

7. Sleeping hours and naps (Q7)

- The average going-to-bed time was 9:10 PM and the average waking time was 7:02 AM. The average sleeping time was 9 hours and 46 minutes.
- For naps (does your child take naps?), those who answered 'no' were 1,002 (64.9%), and 'yes' were 543 (35.1%). The average nap time was 1 hour and 39 minutes.

8. Regular amount of exercise (Q8)

For exercise (what is your regular amount of exercise?), those who answered 'almost every day' were 612 (41.3%), '2-4 times a week' were 465 (31.4%), 'once a week' were 189 (12.7%), and 'barely exercise' were 217 (14.6%).

9. Diet (Q9)

- 3) The frequency of consuming food (drinks), breakfast, eating out, and pre-cooked food were as shown in Table 8 (next page).

Table 8 Frequencies of eating (drinking) pre-cooked foods, breakfast and eating out among age group 4-6
(Upper row is the number of individuals/lower row is ratio)

		I don't eat	Less than once a week	1-2 times a week	3-4 times a week	5-6 times a week	Everyday	Total
Breakfast		5 (0.3%)	0 (0.0%)	14 (0.9%)	39 (2.5%)	67 (4.3%)	1,437 (92.0%)	1,562
Eating out (excluding school lunch)		105 (6.8%)	1,003 (64.6%)	394 (25.4%)	11 (0.7%)	0 (0.0%)	40 (2.6%)	1,553
Pre-cooked foods		114 (7.4%)	619 (40.0%)	634 (41.0%)	146 (9.4%)	24 (1.6%)	9 (0.6%)	1,546
Cooked rice		0 (0.0%)	3 (0.2%)	3 (0.2%)	61 (3.9%)	153 (9.8%)	1,340 (85.9%)	1,560
Bread		12 (0.8%)	246 (15.8%)	568 (36.4%)	352 (22.6%)	149 (9.6%)	232 (14.9%)	1,559
Fish dishes		11 (0.7%)	143 (9.2%)	809 (52.2%)	482 (31.1%)	71 (4.6%)	34 (2.2%)	1,550
Meat	Chicken	11 (0.7%)	253 (16.3%)	920 (59.4%)	331 (21.4%)	30 (1.9%)	5 (0.3%)	1,550
	Beef, pork	20 (1.3%)	108 (7.0%)	765 (49.3%)	561 (36.2%)	80 (5.2%)	17 (1.1%)	1,551
	Ham, sausage	26 (1.7%)	220 (14.3%)	684 (44.5%)	461 (30.0%)	99 (6.4%)	47 (3.1%)	1,537
Vegetables	Green vegetables	85 (5.5%)	182 (11.7%)	545 (35.1%)	457 (29.4%)	144 (9.3%)	141 (9.1%)	1,554
	Red and yellow	32 (2.1%)	106 (6.8%)	480 (30.9%)	551 (35.5%)	210 (13.5%)	174 (11.2%)	1,553
	Hypochromic	37 (2.4%)	109 (7.0%)	416 (26.9%)	554 (35.8%)	248 (16.0%)	185 (11.9%)	1,549
	Vegetable juice	650 (41.9%)	497 (32.0%)	219 (14.1%)	94 (6.1%)	38 (2.5%)	53 (3.4%)	1,551
Fruits	Fruits	43 (2.8%)	122 (7.9%)	345 (22.2%)	407 (26.2%)	270 (17.4%)	366 (23.6%)	1,553
	Fruit juice	349 (22.5%)	448 (28.9%)	352 (22.7%)	203 (13.1%)	87 (5.6%)	112 (7.2%)	1,551
Soy bean	Natto	166 (10.7%)	398 (25.6%)	608 (39.0%)	256 (16.4%)	85 (5.5%)	44 (2.8%)	1,557
	Miso soup	31 (2.0%)	80 (5.1%)	218 (14.0%)	315 (20.2%)	317 (20.3%)	597 (38.3%)	1,558
	Tofu dishes	65 (4.2%)	283 (18.2%)	661 (42.5%)	355 (22.8%)	136 (8.7%)	56 (3.6%)	1,556
	Boiled beans dish	621 (40.1%)	666 (43.1%)	200 (12.9%)	46 (3.0%)	12 (0.8%)	2 (0.1%)	1,547
Milk		85 (5.5%)	101 (6.5%)	163 (10.6%)	216 (14.0%)	256 (16.6%)	723 (46.8%)	1,544
Soy milk		1,229 (79.3%)	229 (14.8%)	58 (3.7%)	20 (1.3%)	5 (0.3%)	9 (0.6%)	1,550
Yogurt, fermented milk drink		41	146	372	383	224	393	1,559

For age group 4-6

	(2.6%)	(9.4%)	(23.9%)	(24.6%)	(14.4%)	(25.2%)	
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Since there are missing values for each item, totals may not match.

10. Child's emotions and behavior (Q10)

- 1) For child's emotions and behavior (survey on child's emotions and behavior (SDQ Japanese version)), among the 1,562 valid responses, 224 (14.3%) were 16 points¹ and above, and 89 (5.7%) were 20 points² and above (Fig. 1). The average total points were 9.7 points. For boys, among the 778 valid responses, 125 (16.1%) were 16 points and above; 55 (7.1%) were 20 points and above. For girls, among the 784 valid responses, 99 (12.6%) were 16 points and above; and 34 (4.3%) were 20 points and above (Fig. 2). The average total score for boys was 10.4 points while the total score for girls was 9.0.
- 2) Regarding whether children have any issues in one or more areas regarding emotions, focus, behavior or interaction with others, those that answered 'no' were 1,156 (74.4%), 'yes (minor issues)' were 324 (20.9%), 'yes (clear issues)' were 63 (4.1%), and 'yes (serious issues)' were 10 (0.6%).
- 3) Among those who answered 'yes' for 2), regarding whether or not their child is upset or concerned about the issue, those who answered 'not at all' were 148 (38.6%); 'only a little' were 211 (55.1%); 'very' were 18 (4.7%); and 'greatly' were 6 (1.6%).

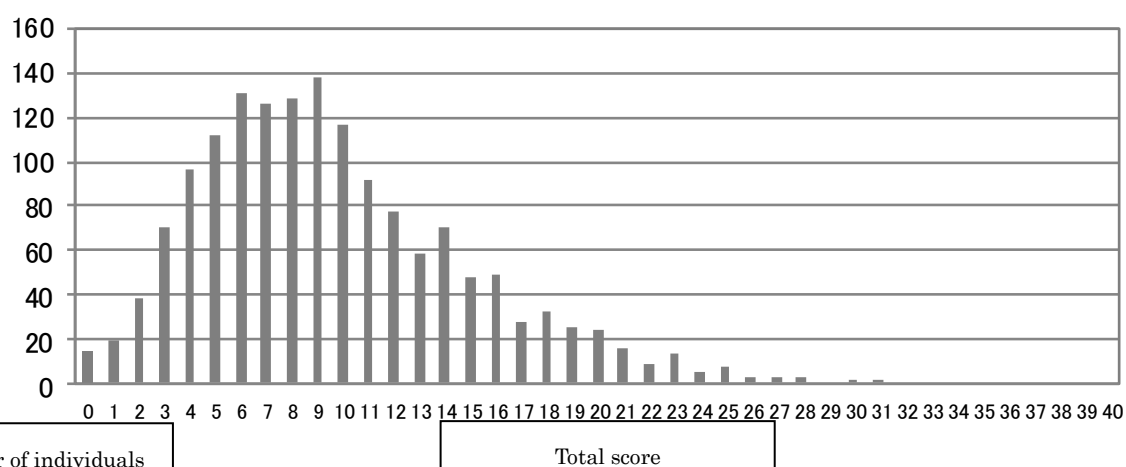


Fig. 1 Children's emotion and behavior for age group 4-6 (SDQ): Overall

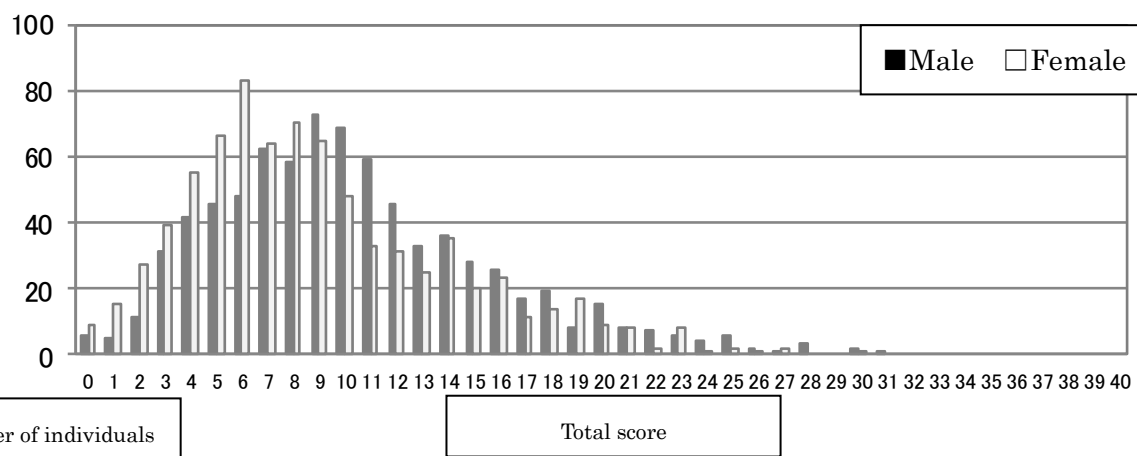


Fig. 2 Children's emotion and behavior for age group 4-6 (SDQ): By gender

- 1) 16 points: A standard value indicated by previous research
- 2) 20 points: A standard established by doctors, etc. from Fukushima Medical University to provide support.

Results of the FY 2013 Mental Health and Lifestyle Survey (For elementary school students)

Among 11,167 people of the Mental Health and Lifestyle Survey (for elementary school students), 3,001 (26.9%) provided valid responses. The breakdown was 1,528 (50.9%) boys and 1,473 (49.1%) girls with an average age of 9.4 years old.

As for the current address, 2,130 (71.1%) lived within the prefecture and 865 (28.9%) lived outside the prefecture.

1. The health condition of the child (Q1)

The ratios for the health state were: 655 (22.8%) for 'Very good'; 1,275 (44.3%) for 'good'; 906 (31.5%) for 'normal'; 34 (1.2%) for 'bad'; and 6 (0.2%) for very bad.

2. The current height and weight of the child (Q2)

The average height/weight of boys was: 121.5cm/25.0kg for 1st graders; 127.6cm/29.1kg for 2nd graders; 132.6cm/31.6kg for 3rd graders; 138.5cm/35.8kg for 4th graders; 143.8cm/39.1kg for 5th graders; and 152.4cm/44.9kg for 6th graders. The average height/weight of girls were: 120.5cm/23.3kg for 1st graders; 125.1cm/26.8kg for 2nd graders; 131.6cm/29.4kg for 3rd graders; 139.1cm/34.3kg for 4th graders; 145.0cm/38.3kg for 5th graders; and 150.3cm/44.2kg for 6th graders.

3. Currently treated diseases (Q3)

For currently treated diseases 1,881 (65.6%) answered 'no' while 986 (34.4%) answered 'yes'.

The breakdown (multiple answers) of diseases for those who answered 'yes' are shown in Table 9 below.

Table 9 The breakdown of currently treated diseases

Disease	Count
Allergic rhinitis	352
Odontopathy	222
Atopic dermatitis	148
Asthma	137
Common cold	110
Sinusitis/ empyema	77
Asthma, atopic dermatitis, allergies, allergic conditions other than nasal inflammation	52
Influenza	49
ADHD	45
Otitis media	35
Epilepsy	14
Other	133

(Multiple answers)

4. Experience of hospitalization (Q4)

For experience of hospitalization, 1,929 (66.3%) answered 'no' while 982 (33.7%) answered 'yes'.

The breakdown of diseases for those who answered 'yes' (multiple answers) are the following in Table 10.

Among those who responded 'yes' to experience of hospitalization, 884 answered that they did not become hospitalized due to a disease within the past year (responded 'none'). The breakdown of those who were hospitalized within the past year is shown below in Table 11.

Table 10 Breakdown of diseases during hospitalization

Disease	Count
Pneumonia	269
Asthma	134
Mycoplasma pneumonia	129
Bronchitis	120
Gastroenteritis	120
Respiratory syncytial virus infection	106
Rotavirus infection	83
Febrile convulsion	83
Influenza	76
Common cold	63
Inguinal hernia	59
Kawasaki disease	29
Other	220

(Multiple answers)

Table 11 Breakdown of diseases during hospitalization within the past year

Disease	Count
Mycoplasma pneumonia	8
Asthma	4
Pneumonia	3
Common cold	3
Gastroenteritis	3
Inguinal hernia	3
Influenza	2
Febrile convulsion	2
Respiratory syncytial virus infection	1
Bronchitis	1
Kawasaki disease	1
Rotavirus infection	0
Other	21

(Multiple answers)

5. Medical exam experience (Q5)

- Those who answered 'no' for experience of CT scans were 2,470 (83.0%), 'yes' were 368 (12.4%) and 'I don't know' were 137 (4.6%).
- Those who answered 'no' for experience of examinations using X-rays (excluding CT and roentgenological examination) were 2,606 (88.9%), 'yes' were 176 (6.0%) and 'I don't know' were 151 (5.1%).

Among those who answered 'yes', 118 had a fluoroscopy, 29 had an angiography, and 10 had a nuclear medicine scan.

6. Experience of radiation therapy treatment (Q6)

For experience of radiation therapy treatment, those who answered 'no' were 2,868 (96.7%), 'yes' were 28 (0.9%), and 'I don't know' were 71 (2.4%).

7. Sleeping hours and naps (Q7)

The average going-to-bed time was 9:29 PM and the average waking time was 6:29 AM. The

average sleeping time was 8 hours and 55 minutes.

8. Regular amount of exercise (Q8)

For exercise (What is your regular amount of exercise?): those who answered ‘almost every day’ were 200 (7.1%); ‘2-4 times a week’ were 764 (27.0%); ‘once a week’ were 722 (25.5%); and ‘barely exercise’ were 1,143 (40.4%).

9. Diet (Q9)

The frequency of consuming food (drinks), breakfast, eating out, and pre-cooked food were as shown in Table 12 (next page).

Table 12 Frequencies of eating (drinking) pre-cooked foods, breakfast and eating out among elementary school students

(Upper row is the number of individuals/lower row is ratio)

		I don't eat	Less than once a week	1-2 times a week	3-4 times a week	5-6 times a week	Everyday	Total
Breakfast		18 (0.6%)	6 (0.2%)	25 (0.8%)	53 (1.8%)	112 (3.7%)	2,777 (92.8%)	2,991
Eating out (excluding school lunch)		225 (7.6%)	1,961 (66.0%)	660 (22.2%)	16 (0.5%)	3 (0.1%)	105 (3.5%)	2,970
Pre-cooked foods		189 (6.4%)	1,302 (43.9%)	1,152 (38.9%)	276 (9.3%)	26 (0.9%)	18 (0.6%)	2,963
Cooked rice		0 (0.0%)	3 (0.1%)	18 (0.6%)	97 (3.2%)	339 (11.3%)	2,534 (84.7%)	2,991
Bread		50 (1.7%)	533 (17.9%)	1,133 (38.1%)	631 (21.2%)	256 (8.6%)	368 (12.4%)	2,971
Fish dishes		27 (0.9%)	342 (11.5%)	1,576 (53.1%)	881 (29.7%)	102 (3.4%)	41 (1.4%)	2,969
Meat	Chicken	20 (0.7%)	468 (15.8%)	1,738 (58.7%)	664 (22.4%)	57 (1.9%)	14 (0.5%)	2,961
	Beef, pork	15 (0.5%)	176 (5.9%)	1,318 (44.3%)	1,243 (41.8%)	182 (6.1%)	43 (1.4%)	2,977
	Ham, sausage	45 (1.5%)	653 (22.1%)	1,298 (44.0%)	746 (25.3%)	152 (5.1%)	59 (2.0%)	2,953
Vegetables	Green vegetables	91 (3.1%)	320 (10.7%)	1,086 (36.4%)	896 (30.1%)	322 (10.8%)	266 (8.9%)	2,981
	Red and yellow	48 (1.6%)	301 (10.1%)	951 (31.9%)	1,031 (34.6%)	358 (12.0%)	288 (9.7%)	2,977
	Hypochromic	46 (1.5%)	173 (5.8%)	726 (24.4%)	1,166 (39.2%)	492 (16.6%)	369 (12.4%)	2,972
	Vegetable juice	1,351 (45.4%)	878 (29.5%)	384 (12.9%)	199 (6.7%)	66 (2.2%)	98 (3.3%)	2,976
Fruits	Fruits	67 (2.2%)	452 (15.2%)	865 (29.0%)	755 (25.3%)	364 (12.2%)	479 (16.1%)	2,982
	Fruit juice	841 (28.3%)	990 (33.3%)	620 (20.9%)	289 (9.7%)	105 (3.5%)	125 (4.2%)	2,970
Soy bean	Natto	303 (10.2%)	846 (28.4%)	1,153 (38.7%)	465 (15.6%)	137 (4.6%)	79 (2.6%)	2,983
	Miso soup	40 (1.3%)	147 (4.9%)	360 (12.1%)	651 (21.9%)	600 (20.1%)	1,181 (39.6%)	2,979
	Tofu dishes	96 (3.2%)	591 (19.8%)	1,251 (42.0%)	710 (23.8%)	214 (7.2%)	119 (4.0%)	2,981
	Boiled beans dish	1,185 (39.9%)	1,293 (43.6%)	373 (12.6%)	88 (3.0%)	16 (0.5%)	12 (0.4%)	2,967
Milk		105 (3.5%)	113 (3.8%)	158 (5.3%)	232 (7.8%)	574 (19.3%)	1,790 (60.2%)	2,972
Soy milk		2,432 (81.8%)	391 (13.2%)	91 (3.1%)	34 (1.1%)	11 (0.4%)	14 (0.5%)	2,973

For elementary school students

Yogurt, fermented milk drink	102 (3.4%)	367 (12.3%)	785 (26.3%)	702 (23.5%)	367 (12.3%)	665 (22.3%)	2,988
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Since there are missing values for each item, totals may not match.

10. Child's emotions and behavior (Q10)

- 1) For child's emotions and behavior (survey on child's emotions and behavior (SDQ Japanese version)), among the 2,996 valid responses, 429 (14.3%) were 16 points¹ and above, and 20 171 (5.7%) were 20 points² and above (Fig. 3). The average total points were 9.4 points. For boys, among the 1,524 valid responses, 245 (16.1%) were 16 points and above, and 108 (7.1%) were 20 points and above. For girls, among the 1,472 valid responses, 184 (12.5%) were 16 points and above and 63 (4.3%) were 20 points and above (Fig. 4). The average total score for boys was 9.9 points while the total score for girls was 8.9 points.
- 2) Regarding whether children have any issues in one or more areas regarding emotions, focus, behavior or interaction with others: those who answered 'no' were 2,073 (69.4%); 'yes (minor issues)' were 751 (25.1%); 'yes (clear issues)' were 133 (4.5%); and 'yes (serious issues)' were 30 (1.0%).
- 3) Among those who answered 'yes' for 2), regarding whether or not their child is upset or concerned about the issue: those who answered 'not at all' were 221 (25.0%); 'only a little' were 581 (65.8%); 'very' were 66 (7.5%); and 'greatly' were 15 (1.7%).

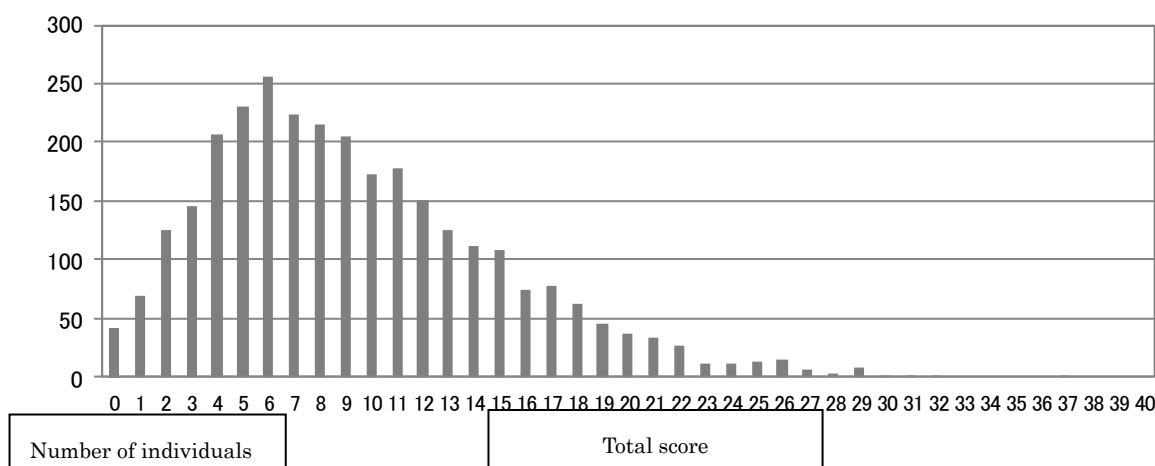


Fig. 3 Children's emotion and behavior among elementary school students (SDQ): Overall

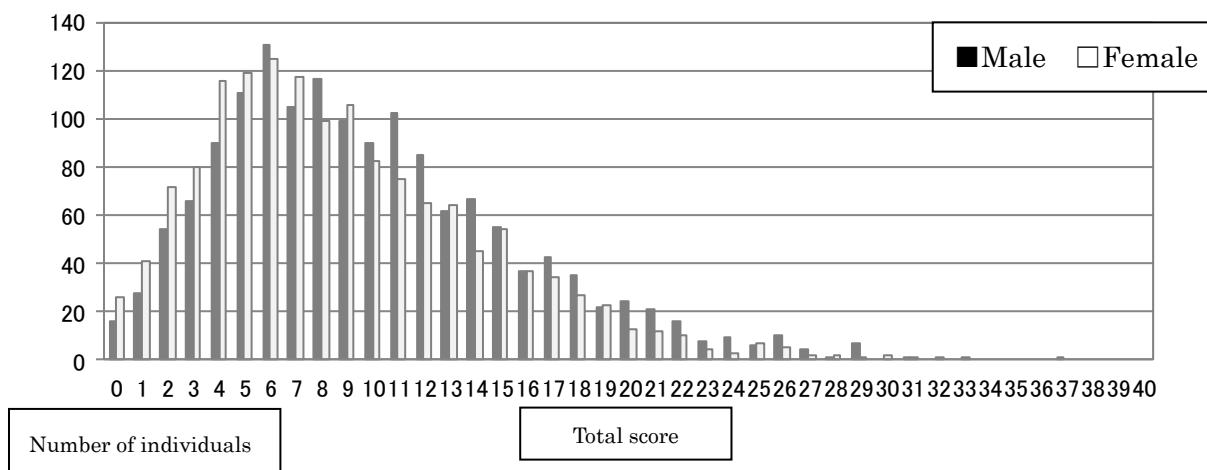


Fig. 4 Children's emotion and behavior among elementary school students (SDQ): By gender

- 1) 16 points: A standard value indicated by previous research
- 2) 20 points: A standard established by doctors, etc. from Fukushima Medical University to provide support.

Results for the FY 2013 Mental Health and Lifestyle Survey (For middle school students)

Among the 6,013 people for the survey regarding mental health and lifestyle habits (for middle school students), there were 1,348 (22.4%) valid responses. The breakdown was 663 (49.2%) boys and 685 (50.8%) girls with an average age of 13.8 years old.

As for the current address, 1,031 (76.7%) lived within the prefecture and 313 (23.3%) lived outside the prefecture.

1. The health condition of the child (Q1)

The ratios for the health condition were: 262 (30.4%) for 'Very good'; 264 (30.7%) for 'good'; 310 (36.0%) for 'normal'; 23 (2.7%) for 'bad'; and 2 (0.2%) for very bad.

2. The current height and weight of the child (Q2)

The average height/weight of boys was: 159.4cm/53.8kg for 7th graders; 165.3cm/56.9kg for 8th graders; and 167.2cm/60.3kg for 9th graders. The average height/ weight for girls were: 154.2cm/46.0kg for 7th graders; 155.9cm/50.2kg for 8th graders; and 156.8cm/49.8kg for 9th graders.

3. Sleeping hours (Q3)

- 1) The average sleeping time was 7 hours and 11 minutes.
- 2) For sleep satisfaction, 373 (43.0%) answered 'it's sufficient', 400 (46.1%) answered 'it's not quite enough', and 95 (10.9%) answered 'it's not enough'.

4. Regular amount of exercise (Q4)

For exercise (aside from physical education classes, what is your regular amount of exercise?), those who answered 'almost every day' were 407 (46.7%), '2-4 times a week' were 124 (14.2%), 'once a week' were 62 (7.1%), and 'barely exercise' were 278 (31.9%).

5. Diet (Q5)

The frequency of consuming food (drinks), breakfast, eating out, and pre-cooked food were as shown in Table 13 (next page).

Table 13 Frequencies of eating (drinking) pre-cooked foods, breakfast and eating out among middle school students

(Upper row is the number of individuals/lower row is ratio)

		I don't eat	Less than once a week	1-2 times a week	3-4 times a week	5-6 times a week	Everyday	Total
Breakfast		17 (2.0%)	10 (1.1%)	11 (1.3%)	18 (2.1%)	52 (6.0%)	762 (87.6%)	870
Eating out (excluding school lunch)		139 (16.1%)	568 (65.9%)	126 (14.6%)	4 (0.5%)	0 (0.0%)	25 (2.9%)	862
Pre-cooked foods		56 (6.5%)	347 (40.4%)	342 (39.8%)	83 (9.7%)	19 (2.2%)	12 (1.4%)	859
Cooked rice		0 (0.0%)	1 (0.1%)	6 (0.7%)	37 (4.3%)	125 (14.4%)	700 (80.6%)	869
Bread		24 (2.8%)	183 (21.2%)	329 (38.1%)	145 (16.8%)	73 (8.5%)	109 (12.6%)	863
Fish dishes		17 (2.0%)	115 (13.3%)	440 (51.0%)	237 (27.5%)	40 (4.6%)	13 (1.5%)	862
Meat	Chicken	5 (0.6%)	141 (16.4%)	477 (55.4%)	201 (23.3%)	29 (3.4%)	8 (0.9%)	861
	Beef, pork	7 (0.8%)	57 (6.6%)	363 (42.1%)	345 (40.0%)	68 (7.9%)	23 (2.7%)	863
	Ham, sausage	26 (3.0%)	193 (22.5%)	372 (43.4%)	197 (23.0%)	49 (5.7%)	21 (2.4%)	858
Vegetables	Green vegetables	26 (3.0%)	66 (7.6%)	268 (31.0%)	252 (29.1%)	119 (13.8%)	134 (15.5%)	865
	Red and yellow	16 (1.8%)	80 (9.2%)	251 (29.0%)	270 (31.1%)	136 (15.7%)	114 (13.1%)	867
	Hypochromic	17 (2.0%)	46 (5.3%)	175 (20.3%)	309 (35.8%)	151 (17.5%)	164 (19.0%)	862
	Vegetable juice	391 (45.2%)	254 (29.4%)	96 (11.1%)	56 (6.5%)	31 (3.6%)	37 (4.3%)	865
Fruits	Fruits	35 (4.0%)	175 (20.2%)	234 (27.1%)	194 (22.4%)	107 (12.4%)	120 (13.9%)	865
	Fruit juice	240 (27.8%)	264 (30.6%)	169 (19.6%)	90 (10.4%)	54 (6.3%)	46 (5.3%)	863
Soy bean	Natto	155 (18.0%)	296 (34.3%)	243 (28.2%)	104 (12.1%)	42 (4.9%)	23 (2.7%)	863
	Miso soup	19 (2.2%)	58 (6.7%)	96 (11.1%)	157 (18.1%)	167 (19.2%)	371 (42.7%)	868
	Tofu dishes	35 (4.0%)	189 (21.8%)	312 (36.0%)	191 (22.1%)	80 (9.2%)	59 (6.8%)	866
	Boiled beans dish	359 (41.7%)	344 (40.0%)	112 (13.0%)	36 (4.2%)	4 (0.5%)	5 (0.6%)	860
Milk		50 (5.8%)	36 (4.2%)	49 (5.7%)	65 (7.5%)	191 (22.1%)	474 (54.8%)	865
Soy milk		666 (76.8%)	129 (14.9%)	29 (3.3%)	24 (2.8%)	7 (0.8%)	12 (1.4%)	867

For middle school students

Yogurt, fermented milk drink	54 (6.2%)	127 (14.6%)	220 (25.3%)	185 (21.3%)	90 (10.4%)	192 (22.1%)	868
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Since there are missing values for each item, totals may not match.

6. Experiences from the earthquake disaster Multiple answers (Q6)

Experiences from the earthquake disaster were: 'earthquake' for 823; 'tsunami' for 114; and 'nuclear power plant accident' for 802; 'none' for 2.

7. Currently treated diseases (Q7)

For currently treated diseases 942 (72.9%) answered 'no' while 351 (27.1%) answered 'yes'.

The breakdown of diseases for individuals who answered 'yes' are shown in Table 14.

Table 14 The breakdown of currently treated diseases

Disease	Count
Allergic rhinitis	122
Odontopathy	73
Atopic dermatitis	50
Asthma	29
Sinusitis/ empyema	21
Asthma, atopic dermatitis, allergies, allergic conditions other than nasal inflammation	20
ADHD	20
Common cold	13
Influenza	11
Epilepsy	9
Otitis media	7
Other	78

(Multiple answers)

8. Experience of hospitalization (Q8)

For experience of hospitalization, 837 (64.7%) answered 'no' while 456 (35.3%) answered 'yes'.

The breakdown of those who answered 'yes' (multiple answers) are as shown in Table 15.

Among those who responded 'yes' to experience of hospitalization, 419 answered that they did not become hospitalized due to a disease within the past year (responded 'none'). The breakdown of those who were hospitalized within the past year is shown below in Table 16 (multiple answers).

Table 15 Breakdown of diseases during hospitalization

Disease	Count
Pneumonia	130
Asthma	85
Bronchitis	59
Mycoplasma pneumonia	58
Gastroenteritis	58
Influenza	54
Common cold	36
Febrile convulsion	36
Rotavirus infection	23
Inguinal hernia	18
Kawasaki disease	15
Respiratory syncytial virus infection	13
Other	89

(Multiple answers)

Table 16 Breakdown of diseases during hospitalization within this year

Disease	Count
Pneumonia	4
Mycoplasma pneumonia	3
Asthma	2
Bronchitis	1
Influenza	1
Febrile convulsion	1
Respiratory syncytial virus infection	0
Common cold	0
Gastroenteritis	0
Rotavirus infection	0
Kawasaki disease	0
Inguinal hernia	0
Other	11

(Multiple answers)

9. Medical exam experience (Q9)

- Those who answered 'no' for experience of CT scans were 1,062 (80.9%), 'yes' were 208 (15.9%), and 'I don't know' were 42 (3.2%).
- Those who answered 'no' for experience of examinations using X-rays (excluding CT and roentgenological examination) were 1,156 (89.1%), 'yes' were 86 (6.6%) and 'I don't know' were 55 (4.2%).

Among those who answered 'yes', 61 had a fluoroscopy, 20 had an angiography, and 2 had a nuclear medicine scan.

10. Experience of radiation therapy treatment (Q10)

For experience of radiation therapy treatment, those who answered 'no' were 1,278 (97.7%), 'yes' were 7 (0.5%) and 'I don't know' were 23 (1.8%).

11. Child's emotions and behavior (Q11)

- 1) For child's emotions and behavior (survey on child's emotions and behavior (SDQ Japanese version), among the 1,316 valid responses, 176 (13.4%) were 16 points¹ and above and 89 (6.8%) were 20 points² and above (Fig. 5). The average total points were 8.7 points.
For boys, among the 652 valid responses, 103 (15.8%) were 16 points and above and 49 (7.5%) were 20 points and above. For girls, among the 664 valid responses, 73 (11.0%) were 16 points and above and 40 (6.0%) were 20 points and above (Fig. 6). The average total score for boys was 9.3 points while the total score for girls was 8.1.
- 2) Regarding whether children have any issues in one or more areas regarding emotions, focus, behavior or interaction with others, those who answered 'no' were 926 (69.4%), 'yes (minor issues)' were 300 (22.5%), 'yes (clear issues)' were 70 (5.2%), and 'yes (serious issues)' were 39 (2.9%).
- 3) Among those that answered 'yes' for 2), regarding whether or not their child is confused or concerned of the issue, those that answered 'not at all' were 65 (16.6%), 'only a little' were 267 (68.3%), 'very' were 41 (10.5%), and 'greatly' were 18 (4.6%).

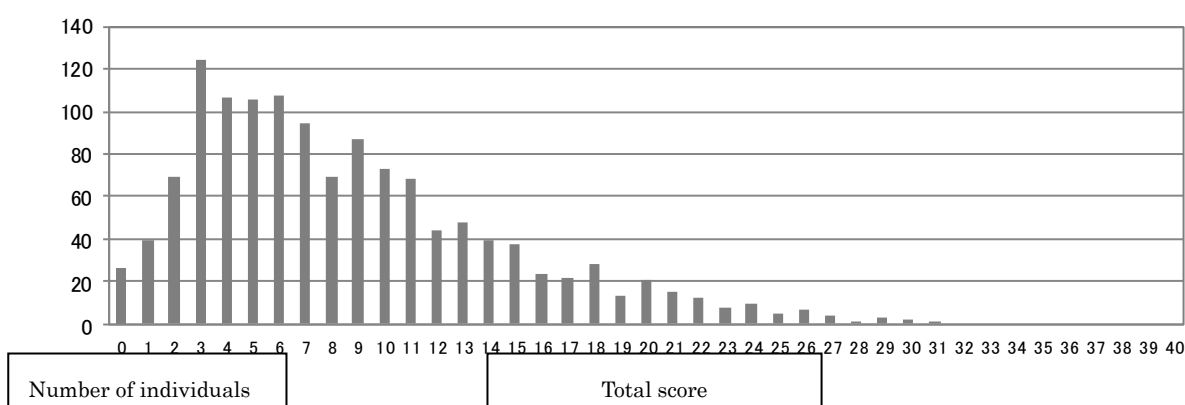


Fig. 5 Children's emotion and behavior for middle school students (SDQ): Overall

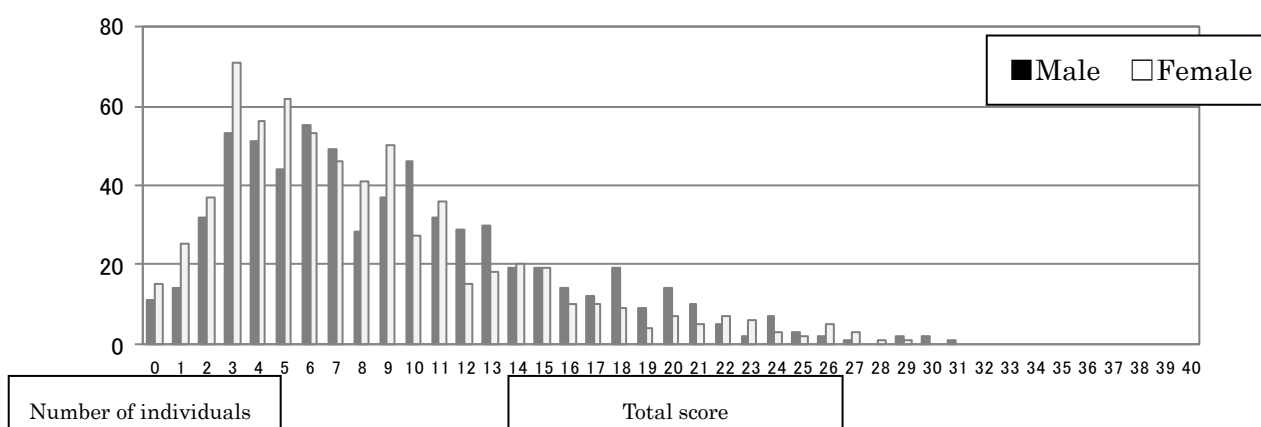


Fig. 6 Children's emotion and behavior for middle school students (SDQ): By gender

- 1) 16 points: A standard value indicated by previous research
- 2) 20 points: A standard established by doctors, etc. from Fukushima Medical University to provide support.

Results for the FY 2013 Mental Health and Lifestyle Survey (For the general public)

Among the 185,859 people for the survey regarding mental health and lifestyle habits (for the general public), there were 27,598 (14.8%) valid responses. The breakdown was 12,317 (44.6%) males and 15,281 (55.4%) girls with an average age of 60.4 years old.

As for the current address, 21,489 (78.8%) lived within the prefecture and 5,766 (21.2%) lived outside the prefecture.

1. Health condition (Q1)

The ratios for the health condition were: 834 (3.5%) for 'Very good'; 3,757 (15.8%) for 'good'; 14,528 (61.1%) for 'normal'; 4,229 (17.8%) for 'bad'; and 423 (1.8%) for 'very bad'.

2. Height and weight (Q2)

- 1) The average height/weight of males was: 165.8cm/66.4kg and the average BMI was 24.1 kg/m².

Among males, those with less than BMI 18.5 kg/m² were 407 (3.6%); 18.5 kg/m² and above and less than 30 kg/m² were 10,206 (91.1%); 30 kg/m² and above and less than 40 kg/m² were 556 (5.0%); and 40 kg/m² and above were 31 (0.3%).

The average height/weight of females was 153.2cm/54.4kg and the average BMI was 23.2 kg/m².

For females, those with a BMI less than 18.5 kg/m² were 1,086 (8.1%); 18.5 kg/m² and above and less than 30 kg/m² were 11,613 (86.6%); 30 kg/m² and above and less than 40 kg/m² were 654 (4.9%); and 40 kg/m² and above were 50 (0.4%).

- 2) For body weight change (did you have any body weight change compared to last year?), those who answered 'it increased by 3kg or more' were 4,882 (18.6%); 'it didn't change (± 3 kg)' were 18,718 (71.5%); and 'it decreased by 3kg or more' were 2,594 (9.9%).

For body weight change for males, those who answered 'it increased by 3kg or more' were 2,047 (17.4%); 'it didn't change (± 3 kg)' were 8,531 (72.6%); and 'it decreased by 3kg or more' were 1,171 (10.0%).

For body weight change for females, those who answered 'it increased by 3kg or more' were 2,835 (19.6%); 'it didn't change (± 3 kg)' were 10,187 (70.5%); and 'it decreased by 3kg or more' were 1,423 (9.9%).

3. Medical history (Q3)

Medical history (Have you ever been diagnosed with some of the following diseases?) is as shown below in Table 17:

The breakdown (multiple answers) of diagnosed diseases within the past year is shown in Table 18 (next page). 5,435 individuals answered ‘no disease’.

Table 17 Experience of diagnoses by general illness and the state of attending hospital as outpatient (Upper row is the number of individuals/lower row is ratio)

Name of illness	Number of valid responses	Diagnosis		Currently attending hospital as outpatient	
		No	Yes	Yes	No
Hypertension (Or high blood pressure)	26,338	14,914 (56.6%)	11,424 (43.4%)	10,119 (90.2%)	1,100 (9.8%)
Diabetes (Or high blood sugar)	25,823	22,144 (85.8%)	3,679 (14.2%)	3,104 (86.9%)	467 (13.1%)
Hyperlipidemia (Or has high cholesterol or neutral fat)	25,881	16,701 (64.5%)	9,180 (35.5%)	6,094 (68.8%)	2,769 (31.2%)
Mental disorder	25,975	22,994 (88.5%)	2,981 (11.5%)	2,168 (75.7%)	697* (24.3%)
Cancer (Including leukemia and lymphoma)	26,299	24,610 (93.6%)	1,689 (6.4%)		
Stroke	26,203	25,006 (95.4%)	1,197 (4.6%)		
(Types of stroke) Multiple answers					
Cerebral infarction			878		
Cerebral hemorrhage			141		
Subarachnoid hemorrhage			120		
Other			29		
I don't know			25		
Heart disease	26,327	22,837 (86.7%)	3,490 (13.3%)		
(Types of heart disease) Multiple answers					
Myocardial infarction			422		
Angina			977		
Arrhythmia			1,823		
Other			471		
I don't know			164		
Chronic hepatitis	26,398	25,873 (98.0%)	525 (2.0%)		
(Types of chronic hepatitis) Multiple answers					
Hepatitis B			147		
Hepatitis C			175		
Other			119		
Pneumonia (in the past decade)	26,470	25,525 (96.4%)	945 (3.6%)		

* Among these, 338 individuals answered that they “are not currently attending hospital as outpatient

since they have recovered”.

Table 17 (continuation) Experience of diagnoses by general illness and the state of attending hospital as outpatient (Upper row is the number of individuals/lower row is ratio)

Name of illness	Number of valid responses	Diagnosis	
		No	Yes
Bone fracture among 50 year olds and above (Collected responses from 50 year olds and above at the time of filling out the questionnaire)	19,458	17,098 (87.9%)	2,360 (12.1%)
Thyroid disease	26,306	25,292 (96.1%)	1,014 (3.9%)
(Types of thyroid disease) Multiple answers			245
Hyperthyroidism (Basedow disease)			354
Hypothyroidism			207
Other			

Table 18 Diagnosed disease in the past year

Disease	Count
Hypertension	8,080
Diabetes	2,578
Hyperlipidemia	3,666
Mental disorder	1,420
Cancer	811
Stroke	380
Heart disease	1,957
Chronic hepatitis	284
Pneumonia	414
Bone fracture*	960
Thyroid disease	561

(Multiple answers)

* Collected responses from individuals 50 years old and above at the time of filling out the questionnaire

4. Medical exam experience (Q4)

- Those who answered ‘no’ for experience of CT scans were 13,265 (49.8%), ‘yes’ were 12,439 (46.7%), and ‘I don’t know’ were 958 (3.6%).
- Those who answered ‘no’ for experience of examinations using X-rays (excluding CT and X-ray examination) were 10,863 (41.2%), ‘yes’ were 14,952 (56.7%) and ‘I don’t know’ were 567 (2.1%).
- For the question whether they experienced angiography, nuclear medicine scan or PET scan those who answered ‘no’ were 21,368 (81.4%); ‘yes’ were 3,595 (13.7%); and ‘I don’t know’ were 1,295 (4.9%).

Among those who answered 'yes', 2,432 had an angiography; 286 had a nuclear medicine scan; and 888 had a PET scan.

5. Experience of radiation therapy treatment (Q5)

For experience of radiation therapy treatment, those who answered 'no' were 24,743 (93.1%), 'yes' were 1,237 (4.7%) and 'I don't know' were 584 (2.2%).

6. Daily living functions (Q6)

- 1) Daily living functions (tell us if you can do the following tasks on your own) are as shown below in Table 19.

Table 19 General daily living functions (Count (ratio))

Daily life tasks	Yes	No	Number of valid responses
1. Eating a meal without assistance (does not include the preparation of the meal)	26,740 (98.8%)	328 (1.2%)	27,068
2. Changing clothes without assistance	26,460 (98.1%)	517 (1.9%)	26,977
3. Going to the bathroom without assistance	26,586 (98.6%)	389 (1.4%)	26,975
4. Buying commodities from the store	25,390 (94.1%)	1,594 (5.9%)	26,984

- 2) For recreation activities (do you participate in recreational activities (karaoke, Japanese croquet, etc.) or local event (festivals etc.)), those who answered 'no, barely' were 16,622 (62.0%); 'sometimes participate' were 7,738 (28.9%); and 'frequently participate' were 2,458 (9.2%).

7. Sleep (Q7)

- 1) The average sleeping time was 7 hours and 2 minutes.
- 2) As for sleep satisfaction, those who answered 'satisfied' were 9,163 (39.4%); 'slightly dissatisfied' were 10,378 (44.7%); 'very dissatisfied' were 3,048 (13.1%); and 'extremely dissatisfied or couldn't sleep at all' were 652 (2.8%).
- 3) Experiences related to sleep (have you experienced the following at least 3 times a week?) are shown below in Table 20.

Table 20 Experiences related to sleep in general (count (ratio))

	Yes	No	Number of valid responses
1. It takes time to fall sleep at night after going to bed.	10,466 (44.1%)	13,291 (55.9%)	23,757
2. I wake up during the night in the middle of sleep	16,015 (67.0%)	7,887 (33.0%)	23,902
3. I wake up before the time I set and can't go back to sleep.	9,832 (42.0%)	13,592 (58.0%)	23,424
4. I don't get enough total sleep.	8,290 (36.0%)	14,712 (64.0%)	23,002
5. I feel tired during the day.	6,492 (28.5%)	16,326 (71.5%)	22,818
6. My physical and mental activity levels during the day are low.	7,165 (31.1%)	15,884 (68.9%)	23,049
7. I feel sleepy during the day.	11,442 (49.0%)	11,920 (51.0%)	23,362

For the general public

8. Exercise (Q8)

For exercise, those who answered 'almost every day' were 4,325 (16.0%); '2-4 times per week' were 6,467 (23.9%); 'once a week' were 4,169 (15.4%); and 'almost never' were 12,143 (44.8%).

9. Opportunities to laugh (Q9)

As for opportunities to laugh (how often do you laugh out loud in your daily life?), those who answered 'almost every day' were 7,057 (26.0%); 'around 1-5 times per week' were 10,972 (40.5%); 'around 1-3 times per month' were 5,371 (19.8%); 'rarely' were 3,722 (13.7%).

10. Smoking (Q10)

- 1) For second-hand smoking (have you ever experienced second-hand smoking at home or at work in the past decade?), those who answered 'every day' were 5,346 (20.6%); 'around 4-5 times per week' were 1,621 (6.2%); 'sometimes' were 7,283 (28.0%); and 'rarely' were 11,739 (45.2%).
- 2) For smoking before the earthquake disaster (have you smoked before the earthquake disaster on Mar 11th 2011?), those who answered 'no' were 17,783 (70.5%) and 'yes' were 7,428 (29.5%).
- 3) As for smoking (do you smoke (tobacco or cigarettes)? this excludes cigars and pipes), those who answered 'never' were 13,688 (58.4%); 'I quit' were 5,648 (24.1%); and 'I smoke' were 4,085 (17.4%).

For those who responded 'I smoke', the average number of cigarettes was 22.1 per day and the average time period of smoking was 29.0 years.

11. Alcohol consumption (Q11)

- 1) For alcohol consumption prior to the earthquake disaster, those who answered 'No or barely drink (less than once a month)' were 13,530 (52.9%); 'Yes (at least once a month)' were 12,053 (47.1%).
- 2) For alcohol consumption (do you currently drink alcohol?), those who answered 'No or barely drink (less than once a month)' were 13,174 (53.0%); 'I quit' were 839 (3.4%); and 'Yes (at least once a month)' were 10,841 (43.6%).
- 3) Among those who answered 'yes (at least once per month)', those who answered '0 times per week' were 42 (0.4%); 'once a week' were 1,628 (15.8%); 'twice a week' were 976 (9.5%); 'three times a week' were 1,024 (10.0%); '4 times a week' were 632 (6.1%); '5 times a week' were 1,182 (11.5%); '6 times a week' were 1,286 (12.5%); and '7 times a week' were 3,517 (34.2%).
- 4) The average alcohol consumption per day was around 1.0 go per day in terms of Japanese sake. Among the 24,854 valid responses for alcohol consumption (Q11-2), 1,962 (7.9%) consumed a large quantity of alcohol (2 go and above in terms of Japanese sake).
- 5) For experience related to alcohol consumption (answer the following questions based on the past 30 days (CAGE: Alcohol dependence standard)), the responses of each items are shown in Table 21 (next page) below. 'Yes' was 1 point and the total points of the 4 items were calculated.

The results by age group are shown in Table 22 (next page) and overall, 0 points were 5,972 (59.9%); 1 point were 2,348 (23.6%); 2 points were 987 (9.9%); 3 points were 491 (4.9%); and 4 points were 164 (1.6%).

For males, 0 points were 3,525 (53.4%); 1 point were 1,775 (26.9%); 2 points were 763 (11.6%); 3 points were 401 (6.1%); and 4 points were 132 (2.0%). For females, 0 points were 2,447 (72.7%); 1 point were 573 (17.0%); 2 points were 224 (6.7%); 3 points were 90 (2.7%); and 4 points were 32 (1.0%).

Table 21 Experience related to alcohol consumption (Upper row is the number of individuals/lower row is ratio)

		No	Yes	Number of valid responses
1	Have you ever felt that you must cut down your alcohol consumption?	6,798 (67.6%)	3,261 (32.4%)	10,059
2	Have you ever been annoyed by others criticizing your drinking habits?	9,024 (90.1%)	987 (9.9%)	10,011
3	Have you ever felt bad or sorry for your drinking habits?	8,684 (86.6%)	1,347 (13.4%)	10,031
4	Have you had a “hair of the dog” drink in order to calm your senses or to cure a hangover?	9,079 (90.6%)	946 (9.4%)	10,025

Since there are missing values for each item, totals may not match.

Table 22 Experience related to alcohol consumption by age group (Upper row is the number of individuals/lower row is ratio)

	0 points	1 point	2 points	3 points	4 points	Number of valid responses
20s	303 (74.3%)	58 (14.2%)	32 (7.8%)	14 (3.4%)	1 (0.2%)	408
30s	738 (65.1%)	215 (19.0%)	101 (8.9%)	60 (5.3%)	20 (1.8%)	1,134
40s	761 (61.7%)	265 (21.5%)	131 (10.6%)	57 (4.6%)	20 (1.6%)	1,234
50s	996 (56.6%)	449 (25.5%)	190 (10.8%)	88 (5.0%)	37 (2.1%)	1,760
60s	1,747 (57.6%)	751 (24.7%)	305 (10.0%)	174 (5.7%)	58 (1.9%)	3,035
70s and above	1,427 (59.7%)	610 (25.5%)	228 (9.5%)	98 (4.1%)	28 (1.2%)	2,391
Overall	5,972 (59.9%)	2,348 (23.6%)	987 (9.9%)	491 (4.9%)	164 (1.6%)	9,962

For the general public

12. Diet (Q12)

The frequency of consuming food (drinks), breakfast, eating, and pre-cooked food were as shown in Table 23 (next page).

Table 23 Frequencies of eating (drinking) pre-cooked foods, breakfast and eating out for the general public (Upper row is the number of individuals/lower row is ratio)

		I don't eat	Less than once a week	1-2 times a week	3-4 times a week	5-6 times a week	Everyday	Total
Breakfast		1,124 (4.2%)	256 (1.0%)	572 (2.1%)	857 (3.2%)	958 (3.6%)	22,902 (85.9%)	26,669
Eating out		7,151 (29.0%)	10,889 (44.1%)	4,098 (16.6%)	880 (3.6%)	344 (1.4%)	1,320 (5.3%)	24,682
Pre-cooked foods		3,770 (15.0%)	8,146 (32.3%)	7,401 (29.4%)	3,491 (13.8%)	1,059 (4.2%)	1,349 (5.3%)	25,216
Cooked rice		240 (0.9%)	180 (0.7%)	466 (1.7%)	1,436 (5.4%)	2,378 (8.9%)	22,023 (82.4%)	26,723
Bread		2,811 (11.4%)	7,469 (30.3%)	6,150 (25.0%)	2,998 (12.2%)	1,235 (5.0%)	3,967 (16.1%)	24,630
Fish dishes		422 (1.6%)	2,684 (10.4%)	8,264 (31.9%)	8,654 (33.4%)	2,546 (9.8%)	3,362 (13.0%)	25,932
Meat	Chicken	1,684 (6.7%)	7,068 (28.0%)	10,665 (42.3%)	4,662 (18.5%)	676 (2.7%)	481 (1.9%)	25,236
	Beef, pork	986 (3.8%)	4,680 (18.1%)	10,965 (42.3%)	7,417 (28.6%)	1,180 (4.6%)	682 (2.6%)	25,910
	Ham, sausage	2,812 (11.2%)	9,078 (36.1%)	8,284 (32.9%)	3,452 (13.7%)	758 (3.0%)	771 (3.1%)	25,155
Vegetables	Green vegetables	466 (1.8%)	2,419 (9.2%)	5,976 (22.7%)	7,080 (26.8%)	3,833 (14.5%)	6,609 (25.1%)	26,383
	Red and yellow	456 (1.7%)	2,998 (11.4%)	6,762 (25.7%)	7,412 (28.2%)	3,785 (14.4%)	4,892 (18.6%)	26,305
	Hypochromic	278 (1.1%)	1,551 (5.9%)	4,892 (18.6%)	7,969 (30.3%)	4,905 (18.7%)	6,684 (25.4%)	26,279
	Vegetable juice	11,098 (43.7%)	6,624 (26.1%)	3,211 (12.6%)	1,746 (6.9%)	790 (3.1%)	1,953 (7.7%)	25,422
Fruits	Fruits	1,647 (6.3%)	4,469 (17.0%)	5,256 (20.0%)	4,762 (18.1%)	2,838 (10.8%)	7,368 (28.0%)	26,340
	Fruit juice	10,646 (42.4%)	7,526 (30.0%)	3,590 (14.3%)	1,657 (6.6%)	653 (2.6%)	1,027 (4.1%)	25,099
Soy bean	Natto	2,567 (9.8%)	4,850 (18.5%)	6,666 (25.4%)	5,130 (19.5%)	2,508 (9.6%)	4,533 (17.3%)	26,254
	Miso soup	809 (3.1%)	1,742 (6.6%)	2,834 (10.7%)	4,050 (15.3%)	3,512 (13.3%)	13,509 (51.1%)	26,456
	Tofu dishes	791 (3.0%)	4,295 (16.4%)	7,878 (30.0%)	7,057 (26.9%)	3,184 (12.1%)	3,038 (11.6%)	26,243
	Boiled beans dish	6,784 (26.5%)	10,000 (39.0%)	4,968 (19.4%)	2,205 (8.6%)	806 (3.1%)	879 (3.4%)	25,642
Milk		7,044 (27.6%)	4,204 (16.5%)	3,331 (13.1%)	2,726 (10.7%)	1,679 (6.6%)	6,507 (25.5%)	25,491
Soy milk		17,838 (71.1%)	3,805 (15.2%)	1,274 (5.1%)	792 (3.2%)	415 (1.7%)	965 (3.8%)	25,089
Yogurt, fermented milk drink		3,722 (14.0%)	4,376 (16.5%)	4,359 (16.4%)	3,708 (13.9%)	2,397 (9.0%)	8,033 (30.2%)	26,595

For the general public

Since there are missing values for each item, totals may not match.

13. Overall mental health (Q13)

- 1) For overall mental health (K6), among the 22,836 valid responses, the number of those with 13 points* and above was 2,349 (10.3%) (Fig. 7). The average points were 5.3 points. For males, among the 10,338 valid responses, the number of those with 13 points and above was 917 (8.9%). For females, among the 12,498 valid responses, 13 points and above were 1,432 (11.5%) (Fig. 8). The average points for males and females were 4.8 and 5.7 points respectively.

Table 24 (next page) shows this data by age group.

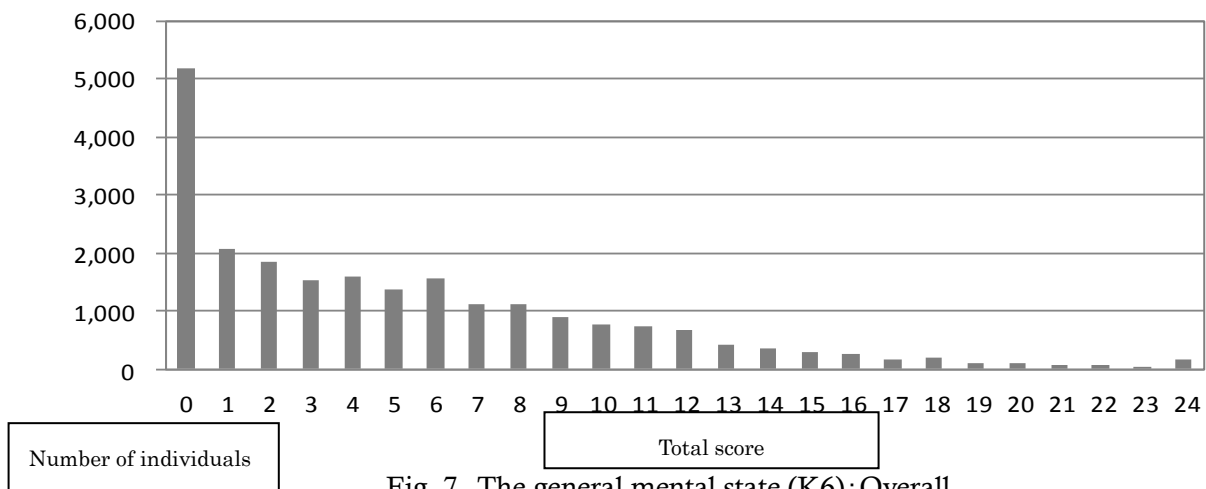


Fig. 7 The general mental state (K6): Overall

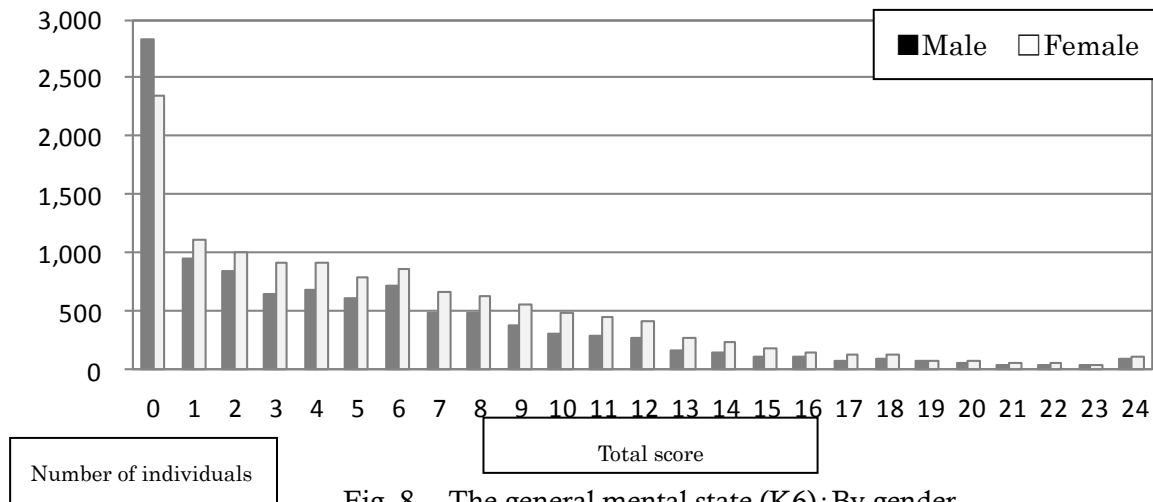


Fig. 8 The general mental state (K6): By gender

Table 24 General mental health state (K6): by age group (count (ratio))

	13 points and above	Number of valid responses
10s	20 (4.4%)	450
20s	102 (9.7%)	1,053
30s	234 (9.7%)	2,411
40s	263 (10.9%)	2,415
50s	353 (10.5%)	3,369
60s	588 (9.4%)	6,249
70 and above	789 (11.5%)	6,889

* 13 points: A standard value indicated by previous research

- 2) For whether or not there were difficulties in daily life caused by experience/condition, those who answered 'not at all' were 13,883 (58.4%); 'just a little' were 5,730 (24.1%); 'sometimes' were 2,720 (11.4%); 'most of the time' were 642 (2.7%); and 'always' were 783 (3.3%).

14. Experiences during the disaster (Q14)

- 1) Experiences from the disaster (multiple answers) were: 'earthquake' for 24,692; 'tsunami' for 4,655; 'nuclear power plant accident' for 24,623; and 'none' for 239.
- 2) For whether or not one experienced a life-threatening event, those who answered 'yes' were 15,282 (60.9%) and 'no' were 9,794 (39.1%).

15. Traumatic response (Q15)

- 1) Among the 22,718 valid responses, those who had 44 points* and above for traumatic response (PCL) were 3,899 (17.2%) for (Fig. 9 (next page)). The average score was 31.0 points.

For males, among the 10,249 valid responses, 44 points and above were 1,625 (15.9%). For females, among the 12,469 valid responses, 44 points and above were 2,274 (18.2%) (Fig. 10 (next page)). The average points for males and females were 30.3 and 31.7 points, respectively.

The data based on age group is shown in table 25 (next page).

- 2) For whether or not there were difficulties in daily life due to such experience and condition, 'yes' were 5,360 (23.4%) and 'no' were 17,529 (76.6%).

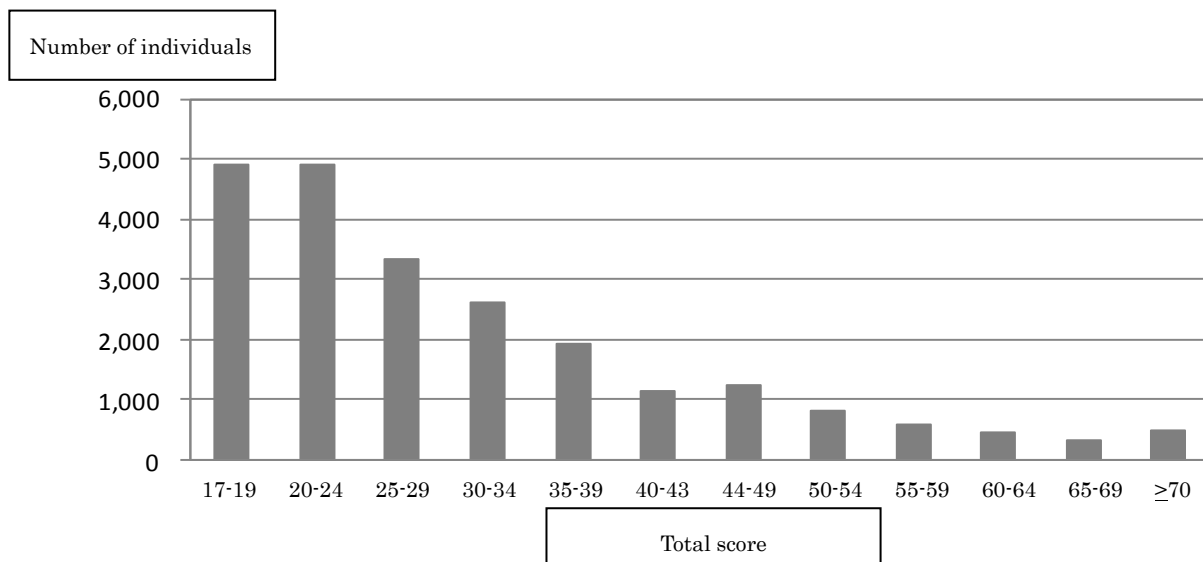


Fig. 9 General traumatic response (PCL): Overall

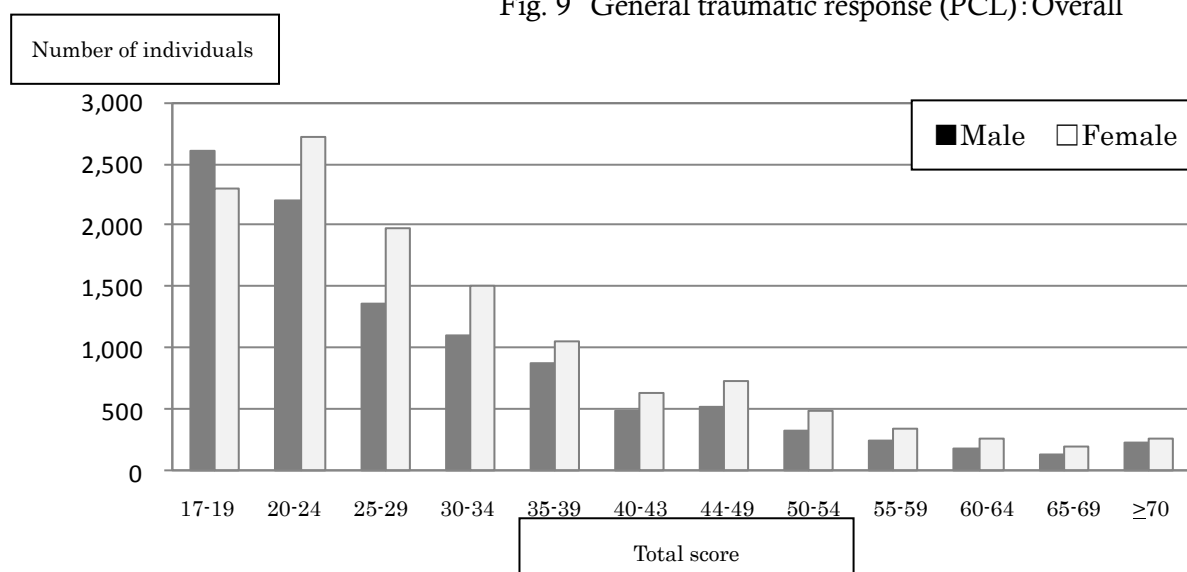


Fig. 10 General traumatic response (PCL): based on gender

For the general public

Table 25 General traumatic response (PCL): by age group (count (ratio))

	44 points and above	Number of valid responses
10s	17 (3.8%)	452
20s	108 (10.4%)	1,039
30s	275 (11.4%)	2,404
40s	344 (14.3%)	2,404
50s	480 (14.3%)	3,361
60s	988 (15.8%)	6,234
70s and above	1,687 (24.7%)	6,824

* 44 points: a standard value indicated by previous research

16. Difficulties in daily life (Q16)

- 1) The frequency of experiencing difficulties in daily life within the past month were: 1,039 (19.9%) for 'frequent'; 2,485 (47.6%) for 'sometimes'; 1,310 (25.1%) for 'rarely'; and 385 (7.4%) for 'never'.
The responses for 2)-4) targeted only those that answered 'frequent', 'sometimes' and 'rarely' for 1).
- 2) The ratio for difficulties related to work, school and housework, etc. were: 165 (3.8%) for 'none'; 1,945 (44.6%) for 'slight'; 1,509 (34.6%) for 'moderate'; 418 (9.6%) for 'severe', and 322 (7.4%) for 'extremely severe'.
- 3) The ratio for difficulties in human relations and spending days off were: 207 (4.6%) for 'none'; 1,815 (40.5%) for 'slight'; 1,612 (36.0%) for 'moderate'; 522 (11.7%) for 'severe'; and 323 (7.2%) for 'extremely severe'.
- 4) The ratio for difficulties in family communication and roles were: 367 (8.2%) for 'none'; 1,756 (39.4%) for 'slight'; 1,503 (33.8%) for 'moderate'; 500 (11.2%) for 'severe'; and 326 (7.3%) for 'extremely severe'.

17. Current living conditions (Q17)

- 1) For whether or not one had to live separately from family due to disaster, 10,480 (39.3%) answered 'yes' and 16,191 (60.7%) answered 'no'.
- 2) For the number of residents in one household (including self), the ratios before the disaster were: 1,914 (7.5%) for 'living alone'; 6,043 (23.8%) for '2 residents'; 5,037 (19.8%) for '3 residents'; 4,272 (16.8%) for '4 residents'; 3,058 (12.0%) for '5 residents'; 2,558 (10.1%) for '6 residents'; 1,566 (6.2%) for '7 residents'; 640 (2.5%) for '8 residents'; 196 (0.8%) for '9 residents'; and 128 (0.5%) for '10 residents and above'.
The current ratios were: 3,826 (14.6%) for 'living alone'; 9,776 (37.4%) for '2 residents'; 5,352 (20.5%) for '3 residents'; 3,485 (13.3%) for '4 residents'; 1,885 (7.2%) for '5 residents'; 1,040 (4.0%) for '6 residents'; 499 (1.9%) for '7 residents'; 160 (0.6%) for '8 residents'; 62 (0.2%) for '9 residents'; and 50 (0.2%) for '10 residents and above'.
- 3) For current residence, 8,302 (31.5%) lived in municipally subsidized rental housing; 4,168 (15.8%) in temporary housing; 256 (1.0%) in restoration public housing; 3,438 (13.0%) in rented houses/apartments; 540 (2.0%) in relative's houses; 8,843 (33.5%) in owned houses; and 833 (3.2%) in other kinds of habitats.
- 4) The number of times of moving since the disaster to present was: 0 times for 2,362 (9.3%) ; 1 time for 2,585 (10.2%); 2 times for 3,247 (12.8%) ; 3 times for 4,334 (17.1%) ; 4 times for 4,183 (16.5%) ; and 5 times for 8,643 (34.1%).
- 5) For the form of employment: 6,437 (25.0%) were full-time/independent; 1,964 (7.6%) were part-time; and 17,321 (67.3%) were unemployed (including students and homemakers).
- 6) For the work situation (has your work situation changed due to the disaster and nuclear

accident?) 11,455 (50.4%) said 'it changed' while 11,268 (49.6%) said 'it did not change'.

For the general public

- 7) Among those who responded 'it changed', the details of this change (multiple answers) were: 1,318 for 'I started a new job'; 5,829 for 'I lost my job'; 1,434 for 'I changed my job'; 1,506 for 'My position changed within the same company/organization; and 2,007 for other.
- 8) For how one sees their financial circumstances; 3,569 (14.3%) said 'tough'; 6,350 (25.5%) said 'slightly tough'; 13,736 (55.2%) said 'normal'; 919 (3.7%) said 'slightly comfortable'; and 301 (1.2%) said 'comfortable'.

18. Human relations (Q18)

For current human relations in daily life (LSNS-6), among the 23,886 valid responses, 9,727 (40.7%) had less than 12 points* (Fig. 11). The average score was 12.9 points.

For males, among the 10,644 valid responses, 4,614 (43.3%) had less than 12 points. For females, among the 13,242 valid responses, 5,113 (38.6%) had less than 12 points (Fig. 12). The average score for males and females were 12.6 points and 13.2 points respectively.

The data by age group is shown in Table 26 (next page).

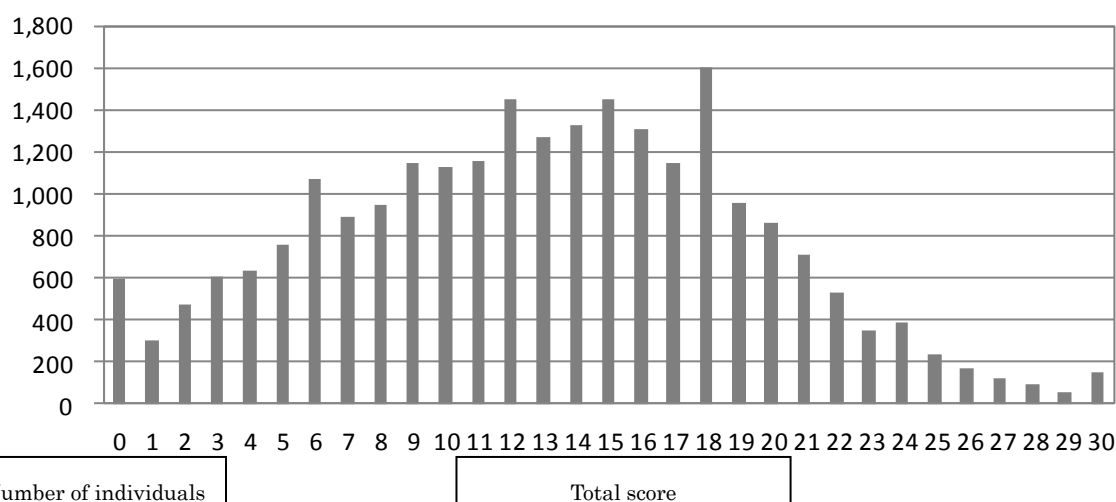


Fig. 11 Human relations (LSNS-6): Overall

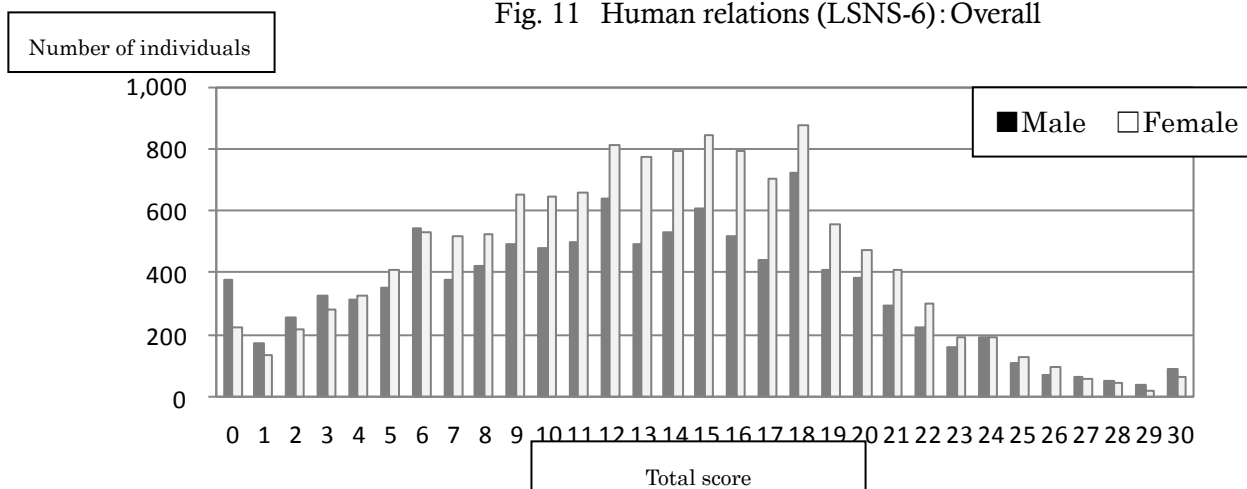


Fig. 12 Human relations (LSNS-6): By gender

Table 26 Human relations (LSNS-6): by age group (count (ratio))

	Less than 12	12 points and above	Number of valid responses
10s	137 (29.3%)	331 (70.7%)	468
20s	449 (41.9%)	623 (58.1%)	1,072
30s	1,239 (50.7%)	1,204 (49.3%)	2,443
40s	1,395 (57.3%)	1,038 (42.7%)	2,433
50s	1,783 (51.5%)	1,681 (48.5%)	3,464
60s	2,578 (39.6%)	3,929 (60.4%)	6,507
70s and above	2,146 (28.6%)	5,353 (71.4%)	7,499

* 12 points: A standard value indicated by previous research

19. Currently residing area (Q19)

The data for the currently residing area (please answer the following questions regarding the area you currently reside) is shown in Table 27.

Table 27 Currently residing area

		Strongly agree	Somewhat agree	Cannot say	Somewhat disagree	Strongly disagree	Number of valid responses
1	The people in this area help each other mutually.	2,592 (9.9%)	9,645 (36.7%)	8,919 (33.9%)	2,584 (9.8%)	2,542 (9.7%)	26,282
2	The people in this area can be trusted.	2,199 (8.4%)	9,192 (35.1%)	10,521 (40.2%)	2,267 (8.7%)	2,015 (7.7%)	26,194
3	The people in this area greet each other.	4,682 (17.7%)	13,373 (50.7%)	5,545 (21.0%)	1,645 (6.2%)	1,141 (4.3%)	26,386
4	If there are issues in this area, people join forces in order to create a solution.	2,631 (10.1%)	9,415 (36.0%)	9,788 (37.4%)	2,150 (8.2%)	2,163 (8.3%)	26,147

For the general public

20. Awareness of health effects caused by radiation (Q20)

Awareness of health effects caused by radiation are shown in Table 28.

Table 28 Awareness of health effects caused by radiation

(Upper row is the number of individuals/lower row is ratio)

		Possibility is very low	←	→	Possibility is very high	Number of valid responses
1	How much health disorders (for example, cancer) do you think will occur in the future due to the current radiation exposure?	6,607 (28.5%)	7,235 (31.2%)	4,953 (21.4%)	4,391 (18.9%)	23,186
2	How much health disorders do you think will occur in future generations (children or grandchildren) due to the current radiation exposure?	4,992 (21.7%)	6,807 (29.6%)	5,839 (25.4%)	5,327 (23.2%)	22,965

For the general public

FY 2013 Fukushima Health Management Survey

Mental Health and Lifestyle Survey

Data

Data from the FY 2013 Mental Health and Lifestyle Survey for the age group 0-3

			Count	Ratio
Gender	(1,281 valid responses)	• Boys	654	51.1%
(average age 2.0)		• Girls	627	48.9%
By address	(1,279 valid responses)	• Within the prefecture	910	71.1%
		• Outside the prefecture	369	28.9%
Q1 Health condition	(1,254 valid responses)	• Very good	415	33.1%
		• Good	533	42.5%
		• Normal	292	23.3%
		• Bad	14	1.1%
		• Very bad	0	0.0%
Q2 Height and weight	(by gender and age *Listed in the main document)			-
Q3 Currently treated diseases	(1,238 valid responses)	• No	917	74.1%
		• Yes	321	25.9%
	(breakdown *Listed in the main document)			
Q4 Experience of hospitalization	(1,272 valid responses)	• No	982	77.2%
		• Yes	290	22.8%
	(breakdown *Listed in the main document)			
Q5 Medical exam experience				
1) CT scan	(1,277 valid responses)	• No	1,192	93.3%
		• Yes	54	4.2%
		• I don't know	31	2.4%
2) Exam using X-rays	(1,258 valid responses)	• No	1,168	92.8%
		• Yes (*Examination contents)	50	4.0%
		(fluoroscopy)	(38)	-
		(angiography)	(7)	-
		(nuclear medicine scan)	(2)	-
		• I don't know	40	3.2%
Q6 Experience of radiation therapy	(1,279 valid responses)	• No	1,251	97.8%
		• Yes	11	0.9%
		• I don't know	17	1.3%
Q7 Sleep time and naps				
1) Sleep time	(1,227 valid responses)	• Average sleep hours: 10 h 0 min		
	(1,234 valid responses)	• Average sleep time: 9:11 PM		
	(1,262 valid responses)	• Average wake-up time: 7:14 AM		
2) Naps	(1,272 valid responses)	• No	181	14.2%
		• Yes	1,091	85.8%
	(870 valid responses)	(Average nap time 1h 52 min)		

Q8 Regular amount of exercise	(852 valid responses)	<ul style="list-style-type: none"> • Almost every day • 2-4 times a week • Once a week • Rarely 	370 283 110 89	43.4% 33.2% 12.9% 10.4%
Q9 Diet				
1) Breast milk	(1,229 valid responses)	<ul style="list-style-type: none"> • Yes • No 	193 1,036	15.7% 84.3%
2) Frequency of eating	-	• Listed in the main document		-
Q10 Child rearing	(1,278 valid responses)	<ul style="list-style-type: none"> • Yes • No • Cannot say 	161 566 551	12.6% 44.3% 43.1%

() indicates included numbers

Data from the FY 2013 Mental Health and Lifestyle Survey for the age group 4-6

			Count	Ratio
Gender	(1,565 valid responses)	• Boys	779	49.8%
(average age 4.8)		• Girls	786	50.2%
By address	(1,560 valid responses)	• Within the prefecture	1,053	67.5%
		• Outside the prefecture	507	32.5%
Q1 Health condition	(1,532 valid responses)	• Very good	404	26.4%
		• Good	651	42.5%
		• Normal	458	29.9%
		• Bad	16	1.0%
		• Very bad	3	0.2%
Q2 Height and weight	(by gender and age *Listed in the main document)			-
Q3 Currently treated diseases	(1,509 valid responses)	• No	978	64.8%
		• Yes	531	35.2%
	(breakdown *Listed in the main document)			
Q4 Experience of hospitalization	(1,546 valid responses)	• No	1,103	71.3%
		• Yes	443	28.7%
	(breakdown *Listed in the main document)			
Q5 Medical exam experience				
1) CT scan	(1,554 valid responses)	• No	1,411	90.8%
		• Yes	96	6.2%
		• I don't know	47	3.0%
2) Exam using X-rays	(1,540 valid responses)	• No	1,406	91.3%
		• Yes (*Examination contents)	84	5.5%
		(fluoroscopy)	(65)	-
		(angiography)	(9)	-
		(nuclear medicine scan)	(2)	-
		• I don't know	50	3.2%
Q6 Experience of radiation therapy	(1,553 valid responses)	• No	1,509	97.2%
		• Yes	14	0.9%
		• I don't know	30	1.9%
Q7 Sleep time and naps				
1) Sleep time	(1,493 valid responses)	• Average sleep hours: 9 h 46 min		
	(1,503 valid responses)	• Average sleep time: 9:10 PM		
	(1,535 valid responses)	• Average wake-up time: 7:02 AM		
2) Naps	(1,545 valid responses)	• No	1,002	64.9%
		• Yes	543	35.1%
	(427 valid responses)	(Average nap time 1h 39 min)		

Data

Q8 Regular amount of exercise	(1,483 valid responses)	<ul style="list-style-type: none"> • Almost every day • 2-4 times a week • Once a week • Rarely 	612 465 189 217	41.3% 31.4% 12.7% 14.6%
Q9 Diet				
Frequency of eating	-	• Listed in the main document	-	-
Q10 SDQ	(1,562 valid responses)	• Average total score 9.7 points		
1) SDQ	(778 valid responses)	• Male average total score 10.4 points		
	(784 valid responses)	• Female average total score 9.0 points		
		• 16 points and above	224	14.3%
		(male)	(125)	-
		(female)	(99)	-
		• 20 points and above	89	5.7%
		(male)	(55)	-
		(female)	(34)	-
2) Presence or absence of difficulties and level	(1,553 valid responses)	<ul style="list-style-type: none"> • No • Yes (slightly difficult) • Yes (clearly difficult) • Yes (critically difficult) 	1,156 324 63 10	74.4% 20.9% 4.1% 0.6%
3) Level of upset	(383 valid responses)	<ul style="list-style-type: none"> • Not at all • A little • Very • Greatly 	148 211 18 6	38.6% 55.1% 4.7% 1.6%

() indicates included numbers

Data from the Mental Health and Lifestyle Survey for elementary school students

			Count	Ratio
Gender	(3,001 valid responses)	• Boys	1,528	50.9%
(average age 9.4)		• Girls	1,473	49.1%
Based on address	(2,995 valid responses)	• Within the prefecture	2,130	71.1%
		• Outside the prefecture	865	28.9%
Q1 Health condition	(2,876 valid responses)	• Very good	655	22.8%
		• Good	1,275	44.3%
		• Normal	906	31.5%
		• Bad	34	1.2%
		• Very bad	6	0.2%
Q2 Height and weight	(based on gender and age *Listed in the main document)			-
Q3 Currently treated diseases	(2,867 valid responses)	• No	1,881	65.6%
		• Yes	986	34.4%
	(breakdown *Listed in the main document)			
Q4 Experience of hospitalization	(2,911 valid responses)	• No	1,929	66.3%
		• Yes	982	33.7%
	(breakdown *Listed in the main document)			
Q5 Medical exam experience				
1) CT scan	(2,975 valid responses)	• No	2,470	83.0%
		• Yes	368	12.4%
		• I don't know	137	4.6%
2) Examination using X-rays	(2,933 valid responses)	• No	2,606	88.9%
		• Yes (*Examination contents)	176	6.0%
		(fluoroscopy)	(118)	-
		(angiography)	(29)	-
		(nuclear medicine scan)	(10)	-
		• I don't know	151	5.1%
Q6 Experience of radiation therapy	(2,967 valid responses)	• No	2,868	96.7%
		• Yes	28	0.9%
		• I don't know	71	2.4%
Q7 Sleep time and naps				
1) Sleep time	(2,896 valid responses)	• Average sleep hours: 8 h 55 min		
	(2,911 valid responses)	• Average sleep time: 9:29 PM		
	(2,970 valid responses)	• Average wake-up time: 6:29 AM		
Q8 Regular amount of	(2,829 valid responses)	• Almost every day	200	7.1%
		• 2-4 times a week	764	27.0%

exercise			• Once a week	722	25.5%
			• Rarely	1,143	40.4%
Q9 Diet					
Frequency of eating		-	• Listed in the main document		-
Q10	SDQ	(2,996 valid responses)	• Average total score 9.4 points		
1) SDQ		(1,524 valid responses)	• Male average total score 9.9 points		
		(1,472 valid responses)	• Female average total score 8.9 points		
			• 16 points and above	429	14.3%
			(male)	(245)	-
			(female)	(184)	-
			• 20 points and above	171	5.7%
			(male)	(108)	-
			(female)	(63)	-
2) Presence or absence of difficulties and level		(2,987 valid responses)	• No	2,073	69.4%
			• Yes (slightly difficult)	751	25.1%
			• Yes (clearly difficult)	133	4.5%
			• Yes (critically difficult)	30	1.0%
3) Level of upset		(883 valid responses)	• Not at all	221	25.0%
			• A little	581	65.8%
			• Very	66	7.5%
			• Greatly	15	1.7%

() indicates included numbers

Data from the FY 2013 Mental Health and Lifestyle Survey for middle school students

			Count	Ratio
Gender	(1,348 valid responses)	• Boys	663	49.2%
(average age 13.8)		• Girls	685	50.8%
By address	(1,344 valid responses)	• Within the prefecture	1,031	76.7%
		• Outside the prefecture	313	23.3%
Q1 Health condition	(861 valid responses)	• Very good	262	30.4%
		• Good	264	30.7%
		• Normal	310	36.0%
		• Bad	23	2.7%
		• Very bad	2	0.2%
Q2 Height and weight	(by gender and age *Listed in the main document)			-
Q3 Sleep				
1) Sleep time	(653 valid responses)	• Average sleep hours: 7 h 11 min		
2) (recent) sleep for the past month	(868 valid responses)	• Sufficient	373	43.0%
		• Slightly insufficient	400	46.1%
		• Insufficient	95	10.9%
Q4 Regular amount of exercise	(871 valid responses)	• Almost every day	407	46.7%
		• 2-4 times a week	124	14.2%
		• Once a week	62	7.1%
		• Rarely	278	31.9%
Q5 Diet	-	• Listed in the main document		-
Q6 Experience at disaster	Multiple answers	• Earthquake	823	-
		• Tsunami	114	-
		• Nuclear power plant accident	802	-
		• Neither	2	-
Q7 Currently treated diseases	(1,293 valid responses)	• No	942	72.9%
		• Yes	351	27.1%
	(breakdown *Listed in the main document)			
Q8 Experience of hospitalization	(1,293 valid responses)	• No	837	64.7%
		• Yes	456	35.3%
	(breakdown *Listed in the main document)			
Q9 Medical exam experience				
1) CT scan	(1,312 valid responses)	• No	1,062	80.9%

		• Yes	208	15.9%
		• I don't know	42	3.2%
2) Examination using X-rays	(1,297 valid responses)	• No	1,156	89.1%
		• Yes (*Examination contents)	86	6.6%
		(fluoroscopy)	(61)	-
		(angiography)	(20)	-
		(nuclear medicine scan)	(2)	-
		• I don't know	55	4.2%
Q10 Experience of radiation therapy	(1,308 valid responses)	• No	1,278	97.7%
		• Yes	7	0.5%
		• I don't know	23	1.8%
Q11 SDQ	(1,316 valid responses)	• Average total score 8.7 points		
1) SDQ	(652 valid responses)	• Male average total score 9.3 points		
	(664 valid responses)	• Female average total score 8.1 points		
		• 16 points and above	176	13.4%
		(male)	(103)	-
		(female)	(73)	-
		• 20 points and above	89	6.8%
		(male)	(49)	-
		(female)	(40)	-
2) Presence or absence of difficulties and level	(1,335 valid responses)	• No	926	69.4%
		• Yes (slightly difficult)	300	22.5%
		• Yes (clearly difficult)	70	5.2%
		• Yes (critically difficult)	39	2.9%
3) Level of upset	(391 valid responses)	• Not at all	65	16.6%
		• A little	267	68.3%
		• Very	41	10.5%
		• 16 points and above	18	4.6%

() indicates included numbers

Data from the Mental Health and Lifestyle Survey for the general public

			Count	Ratio
Gender	(27,598 valid responses)	• Boys	12,317	44.6%
(average age 60.4)		• Girls	15,281	55.4%
By address	(27,255 valid responses)	• Within the prefecture	21,489	78.8%
		• Outside the prefecture	5,766	21.2%
Q1 Health condition	(23,771 valid responses)	• Very good	834	3.5%
		• Good	3,757	15.8%
		• Normal	14,528	61.1%
		• Bad	4,229	17.8%
		• Very bad	423	1.8%
Q2 Height and weight	-	• Listed in the main document		-
Q3 Medical history	-	• Listed in the main document		-
Q4 Medical exam experience				
1) CT scan	(26,662 valid responses)	• No	13,265	49.8%
		• Yes	12,439	46.7%
		• I don't know	958	3.6%
2) Fluoroscopy	(26,382 valid responses)	• No	10,863	41.2%
		• Yes	14,952	56.7%
		• I don't know	567	2.1%
3) Other examinations	(26,258 valid responses)	• No	21,368	81.4%
		• Yes (※Examination contents)	3,595	13.7%
		(angiography)	(2,432)	-
		(nuclear medicine scan)	(286)	-
		(PET scan)	(888)	-
		• I don't know	1,295	4.9%
Q5 Experience of radiation therapy	(26,564 valid responses)	• No	24,743	93.1%
		• Yes	1,237	4.7%
		• I don't know	584	2.2%
Q6 Daily living functions				
1) Daily living functions		• Listed in the main document		
2) Participation in recreational activities	(26,818 valid responses)	• No, or rarely	16,622	62.0%
		• Sometimes	7,738	28.9%
		• Frequently	2,458	9.2%
Q7 Sleep				
1) Sleep time	(17,066 valid responses)	• Average sleep hours: 7 h 2 min		

	responses)			
2) (recent) sleep for the past month	(23,241 valid responses)	• Sufficient	9,163	39.4%
		• Slightly insufficient	10,378	44.7%
		• Very insufficient	3,048	13.1%
		• Greatly insufficient or couldn't get any sleep	652	2.8%
3) Experience related to sleep		-Listed in main document		-
Q8 Exercise	(27,104 valid responses)	• Almost every day	4,325	16.0%
		• 2-4 times a week	6,467	23.9%
		• Once a week	4,169	15.4%
		• Rarely	12,143	44.8%
Q9 Opportunity to laugh	(27,122 valid responses)	• Every day	7,057	26.0%
		• 1-5 times per week	10,972	40.5%
		• 1-3 times per month	5,371	19.8%
		• Rarely	3,722	13.7%

() indicates included numbers

			Count	Ratio
Q10 Smoking				
1) Second-hand smoking	(25,989 valid responses)	• Every day	5,346	20.6%
		• 4-5 times per week	1,621	6.2%
		• Sometimes	7,283	28.0%
		• Rarely	11,739	45.2%
2) Smoking (before disaster)	(25,211 valid responses)	• No	17,783	70.5%
		• Yes	7,428	29.5%
3) Smoking	(23,421 valid responses)	• No	13,688	58.4%
		• I quit	5,648	24.1%
		• I smoke	4,085	17.4%
		(Average of 22.1 per day)		-
		(Average smoking years 29.0 years)		-
Q11 Alcohol				
1) Alcohol consumption before disaster	(25,583 valid responses)	• No, or rarely	13,530	52.9%
		• Yes (at least once a month)	12,053	47.1%
2) Alcohol consumption	(24,854 valid responses)	• No or rarely	13,174	53.0%
		• I quit	839	3.4%
		• Yes (at least once a month)	10,841	43.6%
		(type of alcohol and frequency *Listed in the main document)		-
3) Frequency of consumption	(10,287 valid responses)	• Listed in the main document		
4) Daily alcohol consumption	(9,680 valid responses)	• Average 1 go		
5) Experiences related to alcohol	(9,962 valid responses)	• Listed in the main document		-
Q12 Diet	Multiple answers	• Listed in the main document		
Q13 Mental				
health state (K6)	(22,836 valid responses)	• Average score 5.3 points		
1) Mental health state (K6)	(10,338 valid responses)	• Average male score 4.8 points		
	(12,498 valid responses)	• Average female score 5.7 points		
		• 13 points and above	2,349	10.3%
		(male)	(917)	-
		(female)	(1,432)	-
		(by age group *Listed in the main document)		-
2) Level of	(23,758 valid responses)	• None	13,883	58.4%

disabilities in		• A little	5,730	24.1%
daily life		• Sometimes	2,720	11.4%
		• Mostly	642	2.7%
		• Always	783	3.3%
<hr/>				
Q14 The Great East Japan Earthquake				
1) Disaster	Multiple answers	• Earthquake	24,692	-
experience		• Tsunami	4,655	-
		• Nuclear power plant	24,623	-
		accident		
		• None	239	-
2)	(25,076 valid responses)	• Yes	15,282	60.9%
Life-threatening		• No	9,794	39.1%
experience				
<hr/>				
Q15 Traumatic				
response (PCL)	(22,718 valid responses)	Average score 31.0 points		
1) Traumatic	(10,249 valid responses)	Average male score 30.3		
response (PCL)		points		
	(12,469 valid responses)	Average female score 31.7		
		points		
		• 44 points and above	3,899	17.2%
		(male)	(1,625)	-
		(female)	(2,274)	-
		(By age group *Listed in the main document)		-
2) Difficulties in	(22,889 valid responses)	• Yes	5,360	23.4%
daily life		• No	17,529	76.6%
<hr/>				
Q16 Difficulties				
in daily life		• Frequently	1,039	19.9%
(PCL)	(5,219 valid responses)	• Sometimes	2,485	47.6%
1) Frequency of		• Rarely	1,310	25.1%
difficulties in		• Never	385	7.4%
daily life				
2) Difficulties at	(4,359 valid responses)	• None	165	3.8%
work/school		• Slight	1,945	44.6%
		• Moderate	1,509	34.6%
		• Severe	418	9.6%
		• Very severe	322	7.4%
3) Difficulties in	(4,479 valid responses)	• None	207	4.6%
social life		• Slight	1,815	40.5%
		• Moderate	1,612	36.0%

		• Severe	522	11.7%
		• Very severe	323	7.2%
4) Level of difficulties in family communication and roles	(4,452 valid responses)	• None	367	8.2%
		• Slight	1,756	39.4%
		• Moderate	1,503	33.8%
		• Severe	500	11.2%
		• Very severe	326	7.3%
Q17 Current living conditions				
1) Living conditions with family	(26,671 valid responses)	• Yes	10,480	39.3%
		• No	16,191	60.7%
2) Number of people within household Before the disaster	(25,412 valid responses)	• Alone	1,914	7.5%
		• 2 people	6,043	23.8%
		• More than 3 people	17,455	68.7%
		Details are listed in the main document.		
At present	(26,135 valid responses)	• Alone	3,826	14.6%
		• 2 people	9,776	37.4%
		• More than 3 people	12,533	48.0%
		Details are listed in the main document.		
3) Current residence	(26,380 valid responses)	• Municipally subsidized rental housing	8,302	31.5%
		• Temporary housing	4,168	15.8%
		• Restoration public housing	256	1.0%
		• Rented house/apartment	3,438	13.0%
		• Relative's home	540	2.0%
		• Owned house	8,843	33.5%
		• Other	833	3.2%
4) Number of moves since the disaster	(25,354 valid responses)	• None	2,362	9.3%
		• Once	2,585	10.2%
		• Twice	3,247	12.8%
		• Three times	4,334	17.1%
		• Four times	4,183	16.5%
		• More than five times	8,643	34.1%
5) Form of	(25,722 valid responses)	• Full-time/self-employed	6,437	25.0%

Data

employment		• Part-time	1,964	7.6%
		• Unemployed (including students and homemakers)	17,321	67.3%
6) Work situation	(22,723 valid responses) Multiple answers	• It changed	11,455	50.4%
		• It didn't change	11,268	49.6%
7) Work changes		• Started a new job	1,318	-
		• Lost a job	5,829	-
		• Changed jobs	1,434	-
		• Position change	1,506	-
		• Other	2,007	-
8) Current financial circumstances	(24,875 valid responses)	• Tough	3,569	14.3%
		• Slightly tough	6,350	25.5%
		• Normal	13,736	55.2%
		• Slightly comfortable	919	3.7%
		• Comfortable	301	1.2%
Q18 Human relations (LSNS-6)	(23,886 valid responses) (10,644 valid responses) (13,242 valid responses)	• Average score 12.9 points		
		• Male average score 12.6 points		
		• Female average score 13.2 points		
		• Less than 12 points	9,727	40.7%
		(Male)	(4,614)	
		(Female)	(5,113)	
		(By age group *Listed in the main document)		
Q19 Currently residing area		• Listed in the main document		
Q20 Health effects of radiation		• Listed in the main document		
Q21-24		• Omitted		

() indicates included numbers

XXXXXXXXXX

FY 2014

(Draft)

Fukushima Health Management Survey

Mental Health and Lifestyle Survey

Questionnaire (For ages0-3)

〒963-0000

Room 302, Idai Apartment

1, Hikarigaoka, Fukushima city

Mr. Taro Idai

00X0X0X

②

Enter the required items in the fields below.
Please check ☒ in corresponding boxes.

Date of entry : MM/DD/2015

Child's name : _____

Sex : ☐ M ☐ F

Child's date of birth : MM/DD/YYYY

Who will respond to the survey?

☐ Mother

☐ Father

☐ Grandparents

☐ Other

(_____)

Name of guardian :

(Relationship : _____)

(Change of mailing address) Please enter only if mailing address differs from the address mentioned above.

〒 _____ - _____ City, ward, Ward,
Prefe ctore county town, village

Name of apartment/room number etc. _____

Contact information

Phone number ※The mental health support team may contact you.

Home : (_____) _____ — _____ (Name _____)

Cell : _____ — _____ — _____

Fukushima Prefecture, Fukushima Medical University

Please check ✓ in the corresponding small boxes □ below.

Q1. Describe your child's current health condition.

₁□ Very good ₂□ Good ₃□ Normal ₄□ Bad ₅□ Very bad

Q2. Please enter your child's current height and weight.

Example : Height 89.9cm weight 12.6kg (enter values right justified)

Height cm Weight kg

Height . cm Weight . kg

Q3. Is your child currently receiving treatment for (a) disease(s), etc.?

₁□ No ₂□ Yes If so, please check ✓ in the corresponding boxes□.

₁□ Asthma (Infantile Asthma/bronchial asthma) ₂□ Allergic rhinitis ₃□ Atopic dermatitis

₄□ Allergic diseases other than 1 — ₃ ₅□ Common Cold

₆□ Influenza

₇□ Tympanitis ₈□ Nasal sinus/empyema ₉□

Odontopathy (Cavities, braces, cleft lip and palate, etc.)

₁₀□ Epilepsy ₁₁□ ADHD (attention deficit hyperactivity)

₁₂□ Other (Specific name of disease) (_____)

Q4. Has your child been hospitalized due to an illness within this year?

₁□ No ₂□ Yes If so, please check ✓ the corresponding boxes□.

₁□ Asthma (Infantile Asthma/bronchial asthma) ₂□ Pneumonia (acute/bronchial pneumonia)

₃□ Mycoplasma pneumonia

₄□ Respiratory syncytial virus infection (Respiratory syncytial virus pneumonia) ₅

☐ Common cold ₆□ Bronchitis (Acute bronchitis)

₇□ Influenza ₈□ Gastroenteritis (acute gastroenteritis)

₉□ Rotavirus infection

₁₀□ Febrile convulsion ₁₁□ Kawasaki disease ₁₂□ Inguinal hernia (hernia)

₁₃□ Other (Specific diseases) (_____)

Q5. Below are questions regarding your child's sleeping habits

1) When does your child regularly sleep or wake up?

(Enter right justified based on 24-hour clock.
 (Ex) 7:10PM→ 7:10AM→)

Bedtime h min Time to wake up h min

2) Does your child take naps?

☐ No

☐ Yes



About

h

min

Q6. Below are questions for guardians who have a child aged 2 years or younger. How much does your child exercise?
 (Running around indoors, kicking balls, riding tricycles, etc.)

☐ Almost every day

☐ Around 2-4 times per week

☐ Once a week

☐ Almost never

Q7. Below are questions regarding your child's diet.

1) Does your child drink breast milk?

☐ Yes

☐ No

2) Below are questions for guardians who have a child aged one year old or more . Please check ✓ in corresponding boxes ☐ regarding your child's past month diet.

① Does your child eat seafood 3 days or more per week?..... ☐ Yes ☐ No

② Does your child eat food such as vegetables other than pickles, seaweed or mushrooms almost every day?..... ☐ Yes ☐ No

③ Does your child eat fruits almost every day?..... ☐ Yes ☐ No

④ Does your child eat soy products (Tofu, deep fried tofu, natto, boiled beans, etc.) almost every day?.. ☐ Yes ☐ No

⑤ Does your child eat dairy products (milk, yogurt, etc.) almost every day?..... ☐ Yes ☐ No

Q8. Are there ever times when you doubt your ability to raise a child?

☐ Yes

☐ No

☐ Cannot say



※ If you have concerns regarding your child's health or comments regarding this survey, please describe them below.

Your comments will be used for references for future health management and surveys.

That is it for the questions.

Please enclose the questionnaire in a return envelope and send it by mail.

Thank you for your cooperation.



〔Contact〕

- Exclusively for the Mental Health and Lifestyle Survey
Radiation Medical Science Center, Fukushima Medical
University

Phone number: 024-549-5170

(9 : 00-17 : 00(with the exception of Dec 29-Jan 3 and
weekends/holidays))

8XXXXXXXXX

(Draft)

Questionnaire (For ages 4-6)

Taro Idai

6

Fukushima Prefecture, Fukushima Medical University

Q1. Describe your child's current health condition.

☐ Very good ☐ Good ☐ Normal ☐ Bad ☐ Very bad

Example : Height 89.9cm, weight 12.6kg (enter values right justified)

Height 1 1 6 6 cm Weight 2 1 3 kg

Height cm Weight kg

1 ☐ No 2 ☒ Yes

☐ 1 Asthma (Infantile Asthma/bronchial asthma) ☐ 2 Allergic rhinitis ☐ 3 Atopic dermatitis
☐ 4 Allergic diseases other than 1-3 ☐ 5 Common Cold
☐ 6 Influenza
☐ 7 Tympanitis ☐ 8 Nasal sinus/empyema ☐ 9
 Odontopathy (Cavities, braces, cleft lip and palate, etc.)
☐ 10 Epilepsy ☐ 11 ADHD (attention deficit hyperactivity)
☐ 12 Other (Specific name of disease) (_____)

1 ☐ No 2 ☒ Yes

☐ 1 Asthma (Infantile Asthma/bronchial asthma) ☐ 2 Pneumonia (acute/bronchial pneumonia)
☐ 3 Mycoplasma pneumonia
☐ 4 Respiratory syncytial virus infection (Respiratory syncytial virus pneumonia) ☐ 5
☐ Common cold ☐ 6 Bronchitis (Acute bronchitis)
☐ 7 Influenza ☐ 8 Gastroenteritis (acute gastroenteritis)
☐ 9 Rotavirus infection
☐ 10 Febrile convulsion ☐ 11 Kawasaki disease ☐ 12 Inguinal hernia (hernia)
☐ 13 Other (Specific diseases) ()

(Enter right justified based on 24-hour clock.
(Ex) 7:10PM→

1	9
---	---

10

 7:10AM→

7

10

)

Bedtime h min Time to wake up h min

2) Does your child take naps?

☐ No ☐ Yes  About h min

Q6. Below are questions for guardians who have a child aged 2 years or younger. How much does your child exercise?

(Running around indoors, kicking balls, riding tricycles, etc.)

☐ Almost every day ☐ Around 2-4 times per week

☐ Once a week ☐ Almost never

Q7. Please check ✓ in the corresponding boxes ☐ below regarding your child's diet during the past month.

1) Does your child eat fast compared to others?..... ☐ Fast ☐ Normal ☐ Slow

2) Does your child drink beverages containing sugar (juice, soft drinks) every day?..... ☐
Yes ☐ No

3) Does your child eat seafood 3 days or more per week?..... ☐ Yes ☐ No

4) Does your child eat food such as vegetables other than pickles, seaweed or mushrooms almost every day?..... ☐ Yes ☐ No

5) Does your child eat fruits almost every day?..... ☐ Yes ☐
No

6) Does your child eat soy products (Tofu, deep fried tofu, natto, boiled beans, etc.) almost every day?.. ☐ Yes ☐ No

7) Does your child eat dairy products (milk, yogurt, etc.) almost every day?.....
☐ Yes ☐ No

8) Does your child eat pre-cooked food such as side dishes and boxed meal (including instant food) almost every day?..... ☐ Yes ☐ No

9) Does your child eat out (including fast food) almost every day?..... ☐ Yes ☐
No

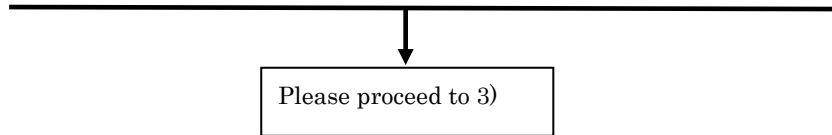
Q8. For each question item below, please check the box “Does not apply”, “Somewhat applies” or “Applies” (Ex: ☒). Even if you are unsure of your answer, or if you think the question is absurd, please make sure to answer all questions.

1) Please describe your child’s behavior in the past 6 months.

	Does not apply	Somewhat applies	Applies
1 My child is often considerate towards feelings of others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 My child is restless and can’t stay put for a long period of time.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 My child often complains of headaches, stomachaches and feeling sick.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 My child often shares things (snacks, toys, pencils, etc.) with other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 My child often gets angry or loses his/her temper.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 My child likes being alone and often plays alone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 My child is obedient and usually listens to adults.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 My child has many concerns and always seems nervous.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 My child proactively helps others if somebody is hurt, depressed or harassed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 My child is always restless and fidgets often.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 My child has at least one close friend.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 My child has fights with or bullies other children often.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13 My child often feels down or has tears in his/her eyes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 My child is mostly liked by other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 My child has difficulty paying attention and cannot focus on one thing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 My child easily loses confidence, gets nervous, and hangs on my arm when he or she is confronted with a new situation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17 My child is kind to younger children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18 My child often covers up the truth or lies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19 My child has been bullied or made fun of by other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 My child often helps others (parents, teachers, other children, etc.) proactively.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21 My child thinks thoroughly before taking action.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 My child often steals from home, school, and others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23 My child seems more comfortable with adults than spending time with other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24 My child is a coward and gets scared easily.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25 My child finishes tasks to the end and has good focus.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2) Overall, do you think your child has any issues in one or more of the following areas:
emotions, paying attention, behaviors or relationships with others?

₁ ☐ No ₂ ☐ Yes (small issues) ₃ ☐ Yes (clear issues) ₄ ☐ Yes
(serious issues)



3) Below are questions for guardians who responded “yes” above. Does your child worry or
become upset about these issues?

₁ ☐ Not at all ₂ ☐ Just a little ₃ ☐ Very ₄ ☐ Greatly

Q9. Does your child ever refuse to go to nursery school or kindergarten?

₁ ☐ Yes ₂ ☐ No ₃ ☐ My child is currently not enrolled in nursery school
or kindergarten.

✖ If you have any concerns regarding your child’s health or comments regarding
this survey, please describe them below.

Your comments will be used for references for future health management and
surveys.

That is it for the questions.

Please enclose the questionnaire in a return envelope and sent it by mail.

Thank you for your cooperation.

Please answer the questionnaire regarding the basic survey as well.

Fukushima prefecture is conducting Fukushima Health Management Survey that aims to promote health of prefectural citizens at present and in the future. Have you submitted your child's basic survey questionnaire (the record of your child's behavior during the 4 months after the nuclear disaster)? (None of these responses will cause disadvantages to you or your child).

₁ ☐ Yes ₂ ☐ No ₃ ☐ I don't know



Below are questions **for those who answered “No” or “I don't know”** above.

Can we resend your child's basic survey questionnaire?

₁ ☐ Yes ₂ ☐ No

XXXXXXXXXX



〔Contact〕

○ ○ Exclusively for the Mental Health and Lifestyle Survey
Radiation Medical Science Center, Fukushima Medical
University

Phone number: 024-549-5170

(9 : 00-17 : 00 (with the exception of Dec 29-Jan 3 and
weekends/holidays))

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FY 2014

(Draft)

Fukushima Health Management Survey

Mental Health and Lifestyle Survey

Questionnaire (For elementary school students)

〒963-0000

Room 302, Idai Apartment
1, Hikarigaoka, Fukushima city

Taro Idai

00X0X0X

6

Enter the required items in the fields below.
Please check ☒ in corresponding boxes.

Date of entry : MM/DD/2015

Child's name : _____

Sex : ☐ M ☐ F

Child's DOB : MM/DD/YYYY

Who will respond to the survey?

☐ Mother ☐ Father ☐ Grandparents ☐ Other
()

Signature of guardian :
(Relationship :)

(Change of mailing address) Please enter if your mailing address differs from the address mentioned above.

〒 - City, ward, county Ward, town, village
Prefecture

Name of apartment/room number etc. _____

Contact information

Phone number ※The mental health support team may contact you.

Home : () — (Name)

Cell : — — —

Fukushima Prefecture

Fukushima Medical University

Please check ✓ in the corresponding small boxes □ below.

Q1. Describe your child's current health condition.

1□ Very good 2□ Good 3□ Normal 4□ Bad 5□ Very bad

Q2. Please enter your child's current height and weight.

Example : Height 145.0cm, weight 38.0kg (enter values right justified)

Height cm Weight kg
 Height cm Weight kg

Q3. Is your child currently receiving treatment for (a) disease(s), etc.?

1□ No 2□ Yes

If so, please check ✓ in the corresponding boxes□.

- 1□ Asthma (Infantile Asthma/bronchial asthma) 2□ Allergic rhinitis 3□ Atopic dermatitis
 4□ Allergic diseases other than 1 — 3 5□ Common Cold
 6□ Influenza
 7□ Tympanitis 8□ Nasal sinus/empyema 9□
 Odontopathy (Cavities, braces, cleft lip and palate, etc.)
 10□ Epilepsy 11□ ADHD (attention deficit hyperactivity)
 12□ Other (Specific name of disease) (_____)

Q4. Has your child been hospitalized due to an illness within this year?

1□ No 2□ Yes

If so, please check ✓ in the corresponding boxes□.

- 1□ Asthma (Infantile Asthma/bronchial asthma) 2□ Pneumonia (acute/bronchial pneumonia)
 3□ Mycoplasma pneumonia
 4□ Respiratory syncytial virus infection (Respiratory syncytial virus pneumonia)
 5□ Common cold 6□ Bronchitis (Acute bronchitis)
 7□ Influenza 8□ Gastroenteritis (acute gastroenteritis)
 9□ Rotavirus infection
 10□ Febrile convulsion 11□ Kawasaki disease 12□ Inguinal hernia (hernia)
 13□ Other (Specific diseases) (_____)

Q5. When does your child regularly go to sleep and wake up?

(Enter right justified based on 24-hour clock.
 (Ex) 7:10PM → 7:10AM →)

Bedtime h min Time to wake up h min

Q6. How much does your child exercise regularly aside from physical education classes (club activities, sport-related lessons, etc.)?

☐ Almost every day ☐ Around 2-4 times per week

☐ Once a week ☐ Almost never

Q7. Please check ✓ in the corresponding boxes ☐ below regarding your child's diet during the past month.

1) Does your child eat fast compared to others?..... ☐ Fast ☐ Normal ☐ Slow

2) Does your child skip breakfast often?..... ☐ Yes ☐ No

3) Does your child drink beverages containing sugar (juice, soft drinks) every day?..... ☐ Yes ☐ No

4) Does your child eat seafood 3 days or more per week?..... ☐ Yes ☐ No

5) Does your child eat food such as vegetables other than pickles, seaweed or mushrooms almost every day?..... ☐ Yes ☐ No

6) Does your child eat fruits almost every day?..... ☐ Yes ☐ No

7) Does your child eat soy products (Tofu, deep fried tofu, natto, boiled beans, etc.) almost every day?.. ☐ Yes ☐ No

8) Does your child eat dairy products (milk, yogurt, etc.) almost every day?..... ☐ Yes ☐ No

9) Does your child eat pre-cooked food such as side dishes and boxed meal (including instant food) almost every day?..... ☐ Yes ☐ No

10) Does your child eat out (including fast food) almost every day?..... ☐ Yes ☐ No

Q8. For each question item below, please check the box “Does not apply”, “Somewhat applies” or “Applies” (Ex: ☒). Even if you are unsure of your answer, or if you think the question is absurd, please make sure to answer all questions.

1) Please describe your child’s behavior in the past 6 months.

	Not applicable	Somewhat applicable	Applicable
1 My child is often considerate towards feelings of others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 My child is restless and can’t stay put for a long period of time.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 My child often complains of headaches, stomachaches and feeling sick.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 My child often shares things (snacks, toys, pencils, etc.) with other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 My child often gets angry or loses his/her temper.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 My child likes being alone and often plays alone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 My child is obedient and usually listens to adults.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 My child has many concerns and always seems nervous.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 My child proactively helps others if somebody is hurt, depressed or harassed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 My child is always restless and fidgets often.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 My child has at least one close friend.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 My child has fights with or bullies other children often.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13 My child often feels down or has tears in his/her eyes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 My child is mostly liked by other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 My child has difficulty paying attention and cannot focus on one thing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 My child easily loses confidence, gets nervous, and hangs on my arm when he or she is confronted with a new situation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17 My child is kind to younger children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18 My child often covers up the truth or lies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19 My child has been bullied or made fun of by other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 My child often helps others (parents, teachers, other children, etc.) proactively.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21 My child thinks thoroughly before taking action.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 My child often steals from home, school, and others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23 My child seems more comfortable with adults than spending time with other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24 My child is a coward and gets scared easily.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2) Overall, do you think your child has any issues in one or more of the following areas:

emotions, paying attention, behaviors or relationships with others?

₁ ☐ No ₂ ☐ Yes (small issues) ₃ ☐ Yes (clear issues) ₄ ☐ Yes (serious issues)

Please proceed to 3)

3) Below are questions for guardians who responded "yes" above. Does your child worry or become upset about these issues?

₁ ☐ Not at all ₂ ☐ Just a little ₃ ☐ Very ₄ ☐ Greatly

Q9. Does your child ever refuse to go to school?

₁ ☐ Yes ₂ ☐ No

✱ If you have any concerns regarding your child's health or comments regarding this survey, please describe them below.

Your comments will be used for references for future health management and surveys.

That is it for the questions.

Please enclose the questionnaire in a return envelope and send it by mail.

Thank you for your cooperation.

Please answer the questionnaire regarding the basic survey as well.

Fukushima prefecture is conducting Fukushima Health Management Survey that aims to promote health of prefectural citizens at present and in the future. Have you submitted your child's basic survey questionnaire (the record of your child's behavior during the 4 months after the nuclear disaster)? (None of these responses will cause disadvantages to you or your child).

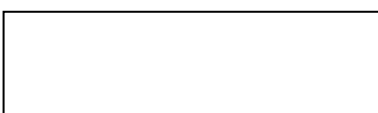
₁ ☐ Yes ₂ ☐ No ₃ ☐ I don't know



Below are questions **for those who answered “No” or “I don't know”** above.

Can we resend your child's basic survey questionnaire?

₁ ☐ Yes ₂ ☐ No





〔Contact〕

○ ○ Exclusively for the Mental Health and Lifestyle Survey
Radiation Medical Science Center, Fukushima Medical
University

Phone number: 024-549-5170

(9 : 00-17 : 00 (with the exception of Dec 29-Jan 3 and
weekends/holidays))

FY 2014

(Draft)

Fukushima Health Management Survey

Mental Health and Lifestyle Survey

Questionnaire (For middle school students)

〒963-0000

Room 302, Idai Apartment
1, Hikarigaoka, Fukushima city

Taro Idai

00X0X0X



Enter the required items in the fields below.
Please check ☒ in corresponding boxes.

Date of entry : MM/DD/2015

Child's name : _____

Sex : ☐ M ☐ F

Child's DOB : MM/DD/YYYY

Who will respond to the survey?

☐ Mother☐ Father☐ Grandparents☐ Other

(_____)

Signature of guardian (If you are a minor responding to this survey, please have your guardian sign for this study upon consent.)

(Signature of guardian)

(Relationship : _____)

(Change of mailing address) Please enter if your mailing address differs from the address mentioned above.

〒 _____ - _____ City, ward, county Ward, town, village
Prefecture

Name of apartment/room number etc. _____

Phone number ※The mental health support team may contact you.

Home : (_____) _____ — _____ (Name _____)

Cell : _____ — _____ — _____

Fukushima Prefecture, Fukushima Medical University

Please check ✓ in the corresponding small boxes □ below.

For questions 1–5, please have your child answer in person.

Respondent : ₁ □ Self ₂ □ On behalf (Relationship _____)

Q1. How is your current health condition?

₁ □ Very good ₂ □ Good ₃ □ Normal ₄ □ Bad ₅ □ Very bad

Q2. Please enter your current height and weight.

Example : Height 159.6cm, weight 54.2kg (enter values right justified)

Height

1	5	9	6
---	---	---	---

 cm Weight

5	4	2
---	---	---

 kg

Q3. Below are questions regarding your sleeping habits.

1) What are your usual average hours of sleep (including naps) per day?

Around

--	--

 h

--	--

 min

2) Do you think your daily hours of sleep are sufficient?

₁ □ Sufficient ₂ □ Not quite sufficient ₃ □ Not sufficient

Q4. How much do you exercise aside from physical education classes?

(Including club activities, sport-related lessons, etc.)

₁ □ Almost every day ₂ □ 2-4 times per week

₃ □ Once a week ₄ □ Almost never

Q5. Check ✓ in the boxes ☐ below that correspond to your diet during the past month.

- 1) Do you eat fast compared to others?..... ☐ Fast ☐ Normal ☐ Slow
- 2) Do you often skip breakfast?..... ☐ Yes ☐ No
- 3) Do you go to sleep within 1-2 hours after dinner?..... ☐ Yes ☐ No
- 4) Do you drink beverages that contain sugar (coffee, juice, soft drinks) almost every day?..
☐ Yes ☐ No
- 5) Do you eat seafood 3 days or more per week?..... ☐ Yes ☐ No
- 6) Do you eat foods such as vegetables other than pickles, seaweed, and mushrooms?..... ☐ Yes ☐ No
- 7) Do you eat fruits almost every day?..... ☐ Yes ☐ No
- 8) Do you eat soy products (Tofu, deep fried tofu, natto, boiled beans, etc.) almost every day?.. ☐ Yes ☐ No
- 9) Do you eat dairy products (milk, yogurt, etc.) almost every day?..... ☐ Yes ☐ No
- 10) Do you eat pre-cooked food such as side dishes and boxed meal (including instant food) almost every day?
..... ☐ Yes ☐ No
- 11) Do you eat out (including fast food) almost every day?..... ☐ Yes ☐ No

✱ If you have any concerns regarding your health or comments regarding this survey, please describe them below. Your comments will be used for references for future health management and surveys.

That is it for the questions to you. Please give this questionnaire to your guardian. Thank you for your cooperation.

For the questions below, the **guardian** must respond on the child's behalf.

Q6. Is your child currently receiving treatment for (a) disease(s), etc.?

1 ☐ No 2 ☐ Yes

If so, please check ☒ the corresponding boxes ☐.

1 <input type="checkbox"/> Asthma (Infantile Asthma/bronchial asthma)	2 <input type="checkbox"/> Allergic rhinitis	3 <input type="checkbox"/> Atopic dermatitis
4 <input type="checkbox"/> Allergic diseases other than 1-3	5 <input type="checkbox"/> Common Cold	6 <input type="checkbox"/>
Influenza		
7 <input type="checkbox"/> Tympanitis	8 <input type="checkbox"/> Nasal sinus/empyema	9 <input type="checkbox"/>
Odontopathy (Cavities, braces, cleft lip and palate, etc.)		
10 <input type="checkbox"/> Epilepsy	11 <input type="checkbox"/> ADHD (attention deficit hyperactivity)	
12 <input type="checkbox"/> Other (Specific name of disease) (_____)		

Q7. Has your child been hospitalized due to an illness within this year?

1 ☐ No 2 ☒ Yes

If so, please check ☒ in the corresponding boxes□.

- ☐ 1 Asthma (Infantile Asthma/bronchial asthma)
- ☐ 2 Pneumonia (acute/bronchial pneumonia)
- ☐ 3 Mycoplasma pneumonia
- ☐ 4 Respiratory syncytial virus infection (Respiratory syncytial virus pneumonia)
- ☐ 5 Common cold
- ☐ 6 Bronchitis (Acute bronchitis)
- ☐ 7 Influenza
- ☐ 8 Gastroenteritis (acute gastroenteritis)
- ☐ 9 Rotavirus infection

Q8. For each question item below, please check the box “Does not apply”, “Somewhat applies” or “Applies” (Ex: ☒). Even if you are unsure of your answer, or if you think the question is absurd, please make sure to answer all questions.

1) Please describe your child’s behavior in the past 6 months.

	Does not apply	Somewhat applies	Applies
1 My child is often considerate towards feelings of others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 My child is restless and can’t stay put for a long period of time.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 My child often complains of headaches, stomachaches and feeling sick.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 My child often shares things (snacks, toys, pencils, etc.) with other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 My child often gets angry or loses his/her temper.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 My child likes being alone and often plays alone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 My child is obedient and usually listens to adults.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 My child has many concerns and always seems nervous.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 My child proactively helps others if somebody is hurt, depressed or harassed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 My child is always restless and fidgets often.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 My child has at least one close friend.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 My child has fights with or bullies other children often.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13 My child often feels down or has tears in his/her eyes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 My child is mostly liked by other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 My child has difficulty paying attention and cannot focus on one thing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 My child easily loses confidence, gets nervous, and hangs on my arm when he or she is confronted with a new situation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17 My child is kind to younger children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18 My child often covers up the truth or lies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19 My child has been bullied or made fun of by other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 My child often helps others (parents, teachers, other children, etc.) proactively.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21 My child thinks thoroughly before taking action.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 My child often steals from home, school, and others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23 My child seems more comfortable with adults than spending time with other children.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24 My child is a coward and gets scared easily.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25 My child finishes tasks to the end and has good focus.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2) Overall, do you think your child has any issues in one or more of the following areas: emotions, paying attention, behaviors or relationships with others?

₁☐No ₂☐Yes (small issues) ₃☐Yes (clear issues) ₄☐Yes (serious issues)

Please proceed to 3)

3) Below are questions for guardians who responded “yes” above. Does your child worry or become upset about these issues?

₁☐Not at all ₂☐Just a little ₃☐Very ₄☐Greatly

Q9. Does your child ever refuse to go to school?

₁☐ Yes ₂☐ No

✖ If you have any concerns regarding your child’s health or comments regarding this survey, please describe them below.

Your comments will be used for references for future health management and surveys.

That is it for the questions. Please enclose the survey in a return envelope and send it by mail.

Thank you for your cooperation.

Please answer the questionnaire regarding the basic survey as well.

Fukushima prefecture is conducting Fukushima Health Management Survey that aims to promote health of prefectural citizens at present and in the future. Have you submitted your child's basic survey questionnaire (the record of your child's behavior during the 4 months after the nuclear disaster)? (None of these responses will cause disadvantages to you or your child).

₁ ☐ Yes ₂ ☐ No ₃ ☐ I don't know



Below are questions **for those who answered “No” or “I don't know”** above.

Can we resend your child's basic survey questionnaire?

₁ ☐ Yes ₂ ☐ No



〔Contact〕

○ ○ Exclusively for the Mental Health and Lifestyle Survey
Radiation Medical Science Center, Fukushima Medical
University

Phone number: 024-549-5170

(9 : 00-17 : 00 (with the exception of Dec 29-Jan 3 and
weekends/holidays))

8XXXXXXXXX

(Draft)

Fukushima Health Management Survey
Mental Health and Lifestyle Survey
Questionnaire **(For the general public)**

Room 302, Idai Apartment
1, Hikarigaoka, Fukushima city

00X0X0X

〒963-0000
Room 302, Idai Apartment
1, Hikarigaoka, Fukushima city
Taro Idai
00X0X0X

Enter the required items in the fields below. Please check ✓ in corresponding boxes□.

Date of entry : MM/DD/2015		Respondent : <input type="checkbox"/> Self <input type="checkbox"/> Representative (Relationship)	
Name : _____		Sex : <input type="checkbox"/> M <input type="checkbox"/> F	
DOB : MM/DD/YYYY			
Signature of guardian (If you are a minor responding to this survey, please have your guardian sign for this study upon consent.) (Signature of guardian) (Relationship :)			
(Change of mailing address) Please enter if your mailing address differs from the address mentioned above.			
〒 _____ - _____ Prefecture		City, ward, county	Ward, town, village
Name of apartment/room number etc. _____			
Contact information Phone number ※The mental health support team may contact you. Home : () _____ — _____ (Name _____) Cell : _____ — _____ — _____			

Fukushima Prefecture, Fukushima Medical University

Please check ✓ in the corresponding small boxes □ below.

Q1. How is your current health condition?

₁□ Very good ₂□ Good ₃□ Normal ₄□ Bad ₅□ Very bad

Q2. Please enter your current height and weight.

Example : Height 171.7cm Weight 70.0kg
 Height cm Weight kg

1) Please enter your current height and weight.

Height cm Weight kg (Right justified)

2) Has there been any changes in your body weight compared to one year ago?

₁□ Increased by 3kg or more ₂□ Almost no change (within ± 3kg) ₃□ Decreased by 3kg or more

Q3. Have you been diagnosed with any of the diseases below within the past year?

1) High blood pressure

₁□ No ₂□ Yes



Are you currently attending a hospital as outpatient? ₁

₁□ Yes ₂□ No

2) Diabetes (high blood-sugar level)

₁□ No ₂□ Yes



Are you currently attending a hospital as outpatient?

₁□ Yes ₂□ No

3) Hyperlipidaemia (or has high cholesterol or high neutral fat)

₁□ No ₂□ Yes



Are you currently attending a hospital as outpatient?

₁□ Yes ₂□ No

4) Mental disorder (diagnosed by a doctor (Ex: depression, sleep disorder, panic disorder, schizophrenia))

₁□ No ₂□ Yes



Are you currently attending a hospital as outpatient?

₁□ Yes

₂□ Not any more since I have improved

₃□ No

5) Cancer (including leukemia and lymphoma)

₁ ☐ No ₂ ☐ Yes ➔

6) Stroke

₁ ☐ No ₂ ☐ Yes ➔

A disease caused by
blocked blood vessels in
the brain

What type of stroke? (Multiple answers possible)

₁ ☐ Stroke (cerebral embolism, cerebral thrombosis)

₂ ☐ Cerebral hemorrhage ₃ ☐ subarachnoid hemorrhage

₄ ☐ Other (_____) ₅ ☐ I don't know

7) Heart disease

₁ ☐ No ₂ ☐ Yes ➔

A disease caused by
blocked blood vessels in
the heart

What type of heart disease? (Multiple answers possible)

₁ ☐ Myocardial infarction ₂ ☐ Angina ₃ ☐ Arrhythmia

₄ ☐ Other (_____) ₅ ☐ I don't know

8) Pneumonia

₁ ☐ No ₂ ☐ Yes

9) Fracture

₁ ☐ No ₂ ☐ Yes

10) Thyroid disease

₁ ☐ No ₂ ☐ Yes ➔

What type of thyroid disease?

₁ ☐ Hyperthyroidism (Basedow disease)

₂ ☐ Hypothyroidism

₃ ☐ Other (_____)

Q4. Below are questions regarding your sleeping habits.

1) (Including naps) what are your usual average hours of sleep per day?

Around h mm

2) Are you satisfied with your quality of sleep (regardless of the length) during the past month?

₁ ☐ Yes ₂ ☐ Not quite ₃ ☐ No ₄ ☐ Not at all, I didn't get any sleep

3) Have you experienced the items below at least 3 times a week?

		Yes	No
1	It takes time for me to fall asleep, even after I'm in bed	₁ <input type="checkbox"/>	₂ <input type="checkbox"/>
2	I wake up during the night in the middle of sleep	₁ <input type="checkbox"/>	₂ <input type="checkbox"/>
3	I wake up before the time I set and can't go back to sleep.	₁ <input type="checkbox"/>	₂ <input type="checkbox"/>
4	I don't get enough total sleep.	₁ <input type="checkbox"/>	₂ <input type="checkbox"/>
5	I feel tired during the day.	₁ <input type="checkbox"/>	₂ <input type="checkbox"/>

6	My daily physical and mental activity levels are low.	₁ <input type="checkbox"/>	₂ <input type="checkbox"/>
7	I feel sleepy during the day.	₁ <input type="checkbox"/>	₂ <input type="checkbox"/>

Q5. Do you exercise regularly?

₁☐ Almost every day ₂☐ 2-4 times per week

₃☐ Once a week ₄☐ Almost never

※ Questions 6 and 7 target adults only.
If you are a minor, proceed to Q8.

Q6. Do you smoke tobacco (cigarettes)? These do not include cigars or pipes.

₁☐ I have never smoked

₂☐ I quit

₃☐ Yes, I do.

Proceed to Q7.

For individuals who smoke:
 Tell us the number of tobacco/cigarettes you regularly smoke.
 ※ I smoke around per day.

Q7. The questions below are regarding alcohol.

1) Do you currently drink alcohol?

₁☐ No, or rarely
 (Less than once a month)

₂☐ I quit

₃☐ Yes (At least once a month)

Proceed to Q8.

Proceed to 2).

2) How often do you drink alcohol?

Around days per week

※Reference Japanese sake 1 go (0.18 liters)
 conversion chart

Beer/Sparkling liquor	1	About 500ml
middle bottle		1
5 Shochu highballs	1 long	500ml
can		1
25% shochu	1 cup	100ml
		1
Whisky	2 singles	60ml
Wine	2 glasses	240ml

3) Please tell us your alcohol intake per day.

1

Amount converted to Japanese sake*

Around

go per day

4) The questions below are regarding your past 30 days.

		No	Yes
1	Have you ever thought that you should cut down your alcohol intake?	<input type="checkbox"/>	<input type="checkbox"/>
2	Have you ever been annoyed by others criticizing your drinking habits?	<input type="checkbox"/>	<input type="checkbox"/>
3	Have you ever felt bad or sorry for your drinking habits?	<input type="checkbox"/>	<input type="checkbox"/>
4	Have you had a hair of the dog in order to calm your senses or to cure a hangover?	<input type="checkbox"/>	<input type="checkbox"/>

Q8. How frequently have you lost your appetite during the past two weeks?

☐ Never ☐ Several days ☐ At least half of the time ☐ Almost every day

Q9. Check ✓ in the boxes ☐ below that correspond to your dietary habits during the past month.

1) Do you eat fast compared to others?..... ☐ Fast ☐ Normal ☐ Slow

2) Do you every skip breakfast?..... ☐ Yes ☐ No

3) Do you end up eating until you are full?..... ☐ Yes ☐ No

4) Do you eat snacks during the day or night every day?..... ☐
Yes ☐ No

5) Do you eat kinds of meat with a large amount of fat (ribs, ground meat, loins, processed meat) at least 3 days per week?..... ☐
Yes ☐ No

6) Do you eat seafood at least 3 days per week?..... ☐ Yes ☐ No

7) Do you have soup (including miso soup, etc.) at least 2 bowls a day?..... ☐
Yes ☐ No

8) Do you eat pickles at least twice a day?..... ☐ Yes
☐ No

- 9) Do you eat vegetables other than pickles, seaweed, and mushrooms for almost every meal?..... ₁☐ Yes ₂☐ No
- 10) Do you eat fruits almost every day?..... ₁☐ Yes
₂☐ No
- 11) Do you eat soy products (Tofu, deep fried tofu, natto, boiled beans, etc.) almost every day?.. ₁☐ Yes ₂☐ No
- 12) Do you eat dairy products (milk, yogurt, etc.) almost every day?..... ₁☐ Yes
₂☐ No
- 13) Do you eat pre-cooked food such as side dishes and boxed meal (including instant food) almost every day?..... ₁☐ Yes ₂☐ No
- 14) Do you eat out (including fast food) almost every day?..... ₁☐ Yes ₂☐ No

Q10. For the past 30 days, how often did you experience the items below?
Please circle the corresponding numbers.

		Never	A little	Some- times	Most of the time	Always
1	Have you been hypersensitive?	0	1	2	3	4
2	Have you been in despair?	0	1	2	3	4
3	Have you been restless?	0	1	2	3	4
4	Have you felt down to the point where nothing can cheer you up?	0	1	2	3	4
5	Did you feel lethargic to do anything?	0	1	2	3	4
6	Did you feel like you were worthless?	0	1	2	3	4
7	Due to such conditions, have you even experienced inconveniences in your daily life?	0	1	2	3	4

Q11. Below are questions regarding your daily living condition.

- 1) Are you currently living away from your family because of the earthquake disaster?
- ₁☐ Yes ₂☐ No

2) Please indicate the number of people you are currently living with (including yourself).

Before the earthquake disaster () At present ()

3) Where do you currently live? Check ✓ in the corresponding boxes below.

₁□ Municipally subsidized rental housing ₂□ Temporary housing ₃□ Restoration public housing ₄□ Rented house/Apartment ₅□ Relative's house
₆□ Owned house ₇□ Other ()

4) Please tell us your current working hours.

₁□ Full-time/self-employed ₂□ Part-time ₃□ Unemployed (Including students and housewives)

5) How do you feel about your current living condition economically?

₁□ Tough ₂□ Slightly tough ₃□ Normal ₄□ Slightly comfortable ₅□ Comfortable

6) Were you (or your spouse) pregnant before the earthquake disaster? Also, were you living together with your child who is underage? (Multiple answers possible)

₁□ No ₂□ Yes



- ₁□ I (or my spouse) was pregnant
- ₂□ I was living with my pre-school or younger child
- ₃□ I was living with my elementary school child.
- ₄□ I was living with my middle school child.
- ₅□ I was living with my underage child who has at least graduated from middle school.

7) Are you (or your spouse) currently pregnant? Or are you currently living with your child who is underage? (Multiple answers possible)

₁□ No ₂□ Yes



- ₁□ I am (or my spouse) is currently pregnant.
- ₂□ I live with my preschool or younger child.
- ₃□ I live with my elementary school child.
- ₄□ I live with my middle school child.
- ₅□ I live with my underage child who has at least graduated from middle school.

Q12. Below are questions regarding radiation.

1) Below are questions regarding your awareness on the health effects of radiation. Please circle the corresponding number.

		The possibilities are very low			The possibilities are very high
1	How much health disorders (For example, cancer, etc.) do you expect to occur in the future due to the current radiation exposure?	1	2	3	4
2	How much health effects do you think the current radiation exposure will have on the future generations (your future children or grandchildren)?	1	2	3	4

2) For the past month, how frequently did you experience inconveniences in your daily life due to your anxieties about radiation?

1 ☐ Frequently 2 ☐ Sometimes 3 ☐ Rarely 4 ☐ Never

Q13. Do you know anyone or any organization that you can consult regarding mental or physical issues that were caused by the Great East Japan Earthquake?

☐ Yes ☐ No



If you do, check ✓ for all corresponding items below.

☐ Family/relatives ☐ Friends/acquaintances

☐ Colleagues/superiors

☐ Municipal consultation service (City public health bureau, health center, etc.)

☐ Prefectural consultation service (Prefectural public health bureau/public health and welfare office, etc.)

☐ Mental health and welfare center

☐ Fukushima Kokoro no Care Center (Fukushima mental care center)

☐ Visiting care/nursing care service organizations

☐ Medical institutions such as psychosomatic medicine/psychiatry/neurology/mental clinics

☐ Medical institutions other than the above (general internal medicine, surgical department, ophthalmology, otorhinology, orthopedics, obstetrics and gynecology, etc.

☐ Facilities related to religion such as temples, shrines, churches, etc.

☐ Other ()

XXXXXXXXXX

※ ※ If you have any concerns regarding your health or comments regarding this survey, please describe them below. Your comments will be used for references for future health management and surveys.

That is it for the questions. Please enclose the survey in a return envelope and send it by mail. Thank you for your cooperation.

Please answer the questionnaire regarding the basic survey.

Fukushima prefecture is conducting Fukushima Health Management Survey that aims to promote health of prefectural citizens at present and in the future. Have you submitted your basic survey questionnaire (the record of your behavior during the 4 months after the nuclear disaster)? (None of these responses will cause disadvantages to you).

₁ ☐ Yes ₂ ☐ No ₃ ☐ I don't know



Below are questions **for those that answered “No” or “I don't know”** above.

Can we resend your child's basic survey questionnaire?

₁ ☐ Yes ₂ ☐ No

〔Contact〕



○ Exclusively for the Mental Health and Lifestyle Survey

Radiation Medical Science Center,

Fukushima Medical University

Phone number: 024-549-5170

(9 : 00-17 : 00 (with the exception of Dec 29-Jan 3 and weekends/holidays))

The Implementation Status of the Pregnancy and Birth Survey

Reported on 25 December 2014

First interim report on the 2013 “Pregnancy and Birth Survey” (responses that have been collected by Oct 31st 2014)

1. Implementation status

For the 2013 “Pregnancy and Birth Survey,” the survey targeted mothers who were issued a maternal and child health handbook within the prefecture from Aug 1st 2012 to Jul 31st 2013, or those who have been issued a maternity health record book outside the prefecture within the time period but have received prenatal examination and/or delivered the infant within the prefecture.

We have sent out 15,218 questionnaires after the middle of December 2013, and have re-sent questionnaires to people who have not responded as of Jul 31st 2014.

2. Main processing and analysis of the survey

(1) Response rate/number of respondents

The number of respondents (response rate) was 7,209 (47.4%). The breakdown of each is the following: Kempoku area 1,918 (52.7%), Kenchu area 1,969 (44.2%), Kennan area 585 (48.2%), Soso area 531 (45.1%), Iwaki area 1,184 (44.7%), Aizu area 831 (45.8%), Minami-Aizu area 83 (51.2%), and 108 outside of the prefecture.

(2) Pregnancy outcomes

- The ratio of miscarriage after the issuance of a maternity health record book was 0.78%, and preterm birth was 5.38%. These numbers were similar to those from 2011 (Miscarriage 0.77%, early birth 4.75%), and 2012 (Miscarriage 0.81%, early birth 5.74%) .
- The incidence rate of congenital malformation or abnormalities for single births was 2.35%. This number was similar to those from 2011 (2.85%) and 2012 (2.39%), as well as the national incidence rate (3-5%). The most common congenital malformation or abnormality was congenital heart defects with an incidence rate of 0.92%.

(3) Mothers' mental health

- The ratio of mothers determined to have depressive symptoms was (24.5%) and have decreased compared to 2011 (27.1%) and 2012 (25.5%).

(Reference: According to *Sukoyaka Oyako 21* or *Healthy Parents and Children 21* (The national movement plan for MCH), the ratio of postpartum depression evaluated by using the Edinburgh Postnatal Depression Scale was 9.0% (2013), and the estimated ratio of postpartum depression ratio from this survey based on the Edinburgh Postnatal Depression Scale was 13%. Document used for estimation: Mishina H, et al. *Pediatr Int.* 2009; 51: 48.)

(4) Prenatal and delivery care

- For the question, “Do you believe you were able to receive sufficient overall prenatal/delivery care this time?” the percentage that responded “I don’t think so” or “Not at all” was 2.3%, and has decreased from 2012 (3.5%).

- The ratio of those who did not continue to receive prenatal care or delivery services at the initially scheduled facility was 14.7%. This was lower than 2011 (24.6%) but similar to 2012 (14.1%). By region, the ratio of outside the prefecture was the highest at 36.3%, and was similar to 2012 (26.9%). Those who changed to facilities outside the prefecture on their own accord was 22.4% and was less than 2011 (54.7%) but similar to 2012 (24.9%).
- The ratio of those who were unable to receive prenatal examination was 2.2% and was less than 2011 (18.8%) but similar to 2012 (2.2%).

(5) Household and child-rearing situations

- The ratio of those taking shelter (including temporary housing and others) was high in the Soso area (50.9%). This has decreased compared to 2012 (61.3%).
- The ratio of those who answered, “I sometimes lose confidence in child rearing” was 17.5%, and increased since 2012 (15.4%). According to the 2010 Infant Health Survey, the ratio of those who answered that they have no confidence in child rearing when their child was one year old was 23.0%.
- Feeding methods for children until weaning include: “Only breast milk” 36.5%, “combination of bottle milk and breast milk” 54.4%, “Only milk” 8.7%. The percentage of “Only breast milk” increased from 30.4% in 2011 and 35.2% in 2012. The reason for using milk included 1.7% who had concern for effects on breast milk due to radiation. This percentage has decreased from 2011 (19.8%) and 2012 (6.2%).

(6) Desire for next pregnancy and requests for medical institutions

- Those who wished to get pregnant again accounted for 52.8% (52.9% for 2012). According to the 14th Birth Trend Basic Survey of 2010, among couples who have been married for less than 10 years, those who are planning to have children were 58% (and 51% for couples who already have children but wish to have more).
- For services requested by individuals who wish for a second pregnancy, the most common is “The expansion and enrichment of day-care center/extended hours childcare/sick child daycare” at 70.2%, followed by “Information and services regarding child rearing and pediatric care” at 66.2%.
- For reasons of not desiring a second pregnancy, the most common is “Because I don’t wish to” at 50.0%, followed by “I’m busy with my current child” at 35.9%. Another reason was “Since I have concerns regarding the radiation” at 5.6% and this was less than 14.8% for 2012.

(7) Phone support situation

- Among the 7,209 respondents, those who were determined to require phone consultation/support were 1,098. For the breakdown of support, the support for depression items were 741 (67.5%), the support for free entry contents was 357 (32.5%).
- The most common consultation contents were “Matters regarding the mental and physical state of the mother” at 42.4%, followed by “Matters regarding child rearing” at 38.8%. “Matters regarding

the impact and concerns regarding radiation” was at 17.1%, and have shown a tendency of gradually decreasing compared to 2011 (29.2%) and 2012 (23.7%).

(8) For free entry contents

- Number of individuals who made entries in the free entry column were 861 (12.0%) and this has decreased compared to 3,722 (42.2%) in 2011, and 1,481 (20.7%) in 2012.

Second total results for the “Pregnancy and Birth Survey” (Comparison with interim reports from 2011, 2012, 2013)

Note : Since the numerical values of the total results ratio are rounded to the closest whole number, there are cases where the total breakdown does not add up to 100%.

1. Number of sent out questionnaires/number of responses

(2013) 7,209 targets responded during the time period between Dec 24th 2013 and Oct 31st 2014

Area	Numbers sent out (%)	Number of respondents (%)
Kempoku	3,637 (23.9)	1,918 (52.7)
Kenchu	4,453 (29.3)	1,969 (44.2)
Kennan	1,213 (8.0)	585 (48.2)
Soso	1,178 (7.7)	531 (45.1)
Iwaki	2,649 (17.4)	1,184 (44.7)
Aizu	1,816 (11.9)	831 (45.8)
Minami-Aizu	162 (1.1)	83 (51.2)
Outside of prefecture	110 (0.7)	108 (98.2)
Total	15,218 (100.0)	7,209 (47.4)

(2012) 7,181 people responded during the time period between Dec 14th 2012 and Nov 30th 2013

Area	Numbers sent out (%)	Number of respondents (%)
Kempoku	3,347 (23.1)	1,857 (55.5)
Kenchu	4,243 (29.2)	2,067 (48.7)
Kennan	1,164 (8.0)	560 (48.1)
Soso	1,145 (7.9)	500 (43.7)
Iwaki	2,516 (17.3)	1,203 (47.8)
Aizu	1,848 (12.7)	819 (44.3)
Minami-Aizu	157 (1.1)	79 (50.3)
Outside of prefecture	96 (0.7)	96 (100.0)
Total	14,516 (100.0)	7,181 (49.5)

(2011) 9,316 people responded during the time period between Jan 20th 2012 and Mar 31st 2013

Area	Numbers sent out (%)	Number of respondents (%)
Kempoku	3,647 (22.8)	2,288 (62.7)
Kenchu	4,819 (30.1)	2,857 (59.3)
Kennan	1,256 (7.8)	631 (50.2)
Soso	1,468 (9.2)	962 (65.5)
Iwaki	2,711 (16.9)	1,513 (55.8)
Aizu	1,919 (12.0)	957 (49.9)
Minami-Aizu	152 (0.9)	85 (55.9)
Outside of prefecture	29 (0.2)	23 (79.3)
Total	16,001 (100.0)	9,316 (58.2)

For 2013, among the above-mentioned 7,209 respondents, the number of invalid responses was 42 (No response 10, not applicable 24, overlap 8) with a total of 7,167 collected responses. Furthermore, for each items there were no responses and invalid answers.

2. Pregnancy outcome

(2013)		Percentage of pregnancies (%)				
Area	Currently pregnant	Delivered	Miscarriage	Abortion	Stillbirth	Total
Kempoku	3(0.16)	1,888(98.80)	15(0.78)	0(0.00)	5(0.26)	1,911
Kenchu	1(0.05)	1,937(98.88)	16(0.82)	2(0.10)	3(0.15)	1,959
Kennan	1(0.17)	575(98.63)	2(0.34)	0(0.00)	5(0.86)	583
Soso	1(0.19)	520(98.48)	5(0.95)	0(0.00)	2(0.38)	528
Iwaki	3(0.25)	1,158(98.30)	11(0.93)	1(0.08)	5(0.42)	1,178
Aizu	0(0.00)	816(98.91)	7(0.85)	0(0.00)	2(0.24)	825
Minami-Aizu	0(0.00)	82(98.80)	0(0.00)	0(0.00)	1(1.20)	83
Outside of prefecture	0(0.00)	102(100.00)	0(0.00)	0(0.00)	0(0.00)	102
Total	9(0.13)	7,078(98.73)	56(0.78)	3(0.04)	23(0.32)	7,169

※Twins were basically counted as one delivery. Only twins who had different clinical outcomes were counted as two.

(2012)		Percentage of pregnancies (%)				
Area	Currently pregnant	Delivered	Miscarriage	Abortion	Stillbirth	Total
Kempoku	12(0.65)	1,812(98.05)	18(0.97)	0(0.00)	6(0.32)	1,848
Kenchu	9(0.44)	2,033(98.64)	11(0.53)	2(0.10)	6(0.29)	2,061
Kennan	3(0.54)	552(98.57)	5(0.89)	0(0.00)	0(0.00)	560
Soso	4(0.82)	470(96.71)	7(1.44)	3(0.62)	2(0.41)	486
Iwaki	8(0.67)	1,176(98.16)	12(1.00)	0(0.00)	2(0.17)	1,198
Aizu	2(0.25)	804(98.53)	5(0.61)	1(0.12)	4(0.49)	816
Minami-Aizu	0(0.00)	78(100.00)	0(0.00)	0(0.00)	0(0.00)	78
Outside of prefecture	0(0.00)	93(100.00)	0(0.00)	0(0.00)	0(0.00)	93
Total	38(0.53)	7,018(98.29)	58(0.81)	6(0.08)	20(0.28)	7,140

※Twins were basically counted as one delivery. Only twins that have different clinical outcomes were counted as two.

(2011)		Percentage of pregnancies (%)				
Area	Currently pregnant	Delivered	Miscarriage	Abortion	Stillbirth	Total
Kempoku	20(0.92)	2,124(98.11)	16(0.74)	1(0.05)	4(0.18)	2,165
Kenchu	45(1.67)	2,616(96.92)	28(1.04)	2(0.07)	8(0.30)	2,699
Kennan	7(1.17)	588(98.00)	4(0.67)	0(0.00)	1(0.17)	600
Soso	4(0.44)	897(98.25)	7(0.77)	1(0.11)	4(0.44)	913
Iwaki	20(1.41)	1,384(97.33)	12(0.84)	1(0.07)	5(0.35)	1,422
Aizu	18(1.98)	888(97.91)	1(0.11)	0(0.00)	0(0.00)	907
Minami-Aizu	2(2.38)	82(97.62)	0(0.00)	0(0.00)	0(0.00)	84
Outside of prefecture	0(0.00)	22(100.00)	0(0.00)	0(0.00)	0(0.00)	22
Total	116(1.32)	8,601(97.61)	68(0.77)	5(0.06)	22(0.25)	8,812

Premature delivery rate* (Premature delivery is when the gestational age is 22-36 weeks)

(2013) (Singletons/twins)

Area	(singletons/twins) Number of delivery weeks								Premature delivery count (22-36 weeks)	Premature delivery rate (%)**	
	12-21 weeks	Premature delivery					37-41 weeks	42 weeks or more			Number of deliveries
		22-23 weeks	24-27 weeks	28-31 weeks	32-36 weeks						
Kempoku	4	2	2	7	86	1,805	3	1,909	97	5.09	
Kenchu	11	0	5	10	80	1,854	5	1,965	95	4.86	
Kennan	1	0	5	1	30	542	7	586	36	6.15	
Soso	1	0	0	1	34	490	1	527	35	6.65	
Iwaki	5	2	4	7	60	1,083	9	1,170	73	6.27	
Aizu	2	0	0	4	41	775	2	824	45	5.47	
Minami-Aizu	0	0	0	0	2	82	0	84	2	2.38	
Outside of prefecture	0	0	0	0	1	101	0	102	1	0.98	
Total	24	4	16	30	334	6,732	27	7,167	384	5.38	

*The premature delivery rate was calculated by excluding cases where the number of fetuses or the number of weeks is unknown and when it was less than 12 weeks. Since twins were counted separately, they do not match the target number. Since one of the twins was a miscarriage less than 12 weeks in one of the cases, it was omitted from the data.

**Premature delivery rate was determined by deducting the number of childbirths less than 22 weeks from the total number of childbirths and using the result as the denominator.

(2012) (Singletons/twins)

(2012) (Singletons/twins)											
Area	(Singletons/twins) Number of delivery weeks								Premature delivery count 22-36 weeks	Premature delivery rate	
	12-21 weeks	Premature delivery					37-41 weeks	42 weeks or more			Number of deliveries
		22-23 weeks	24-27 weeks	28-31 weeks	32-36 weeks						
Kempoku	7	0	3	7	75	1,734	6	1,832	85	4.66	
Kenchu	7	3	5	10	115	1,911	7	2,058	133	6.48	
Kennan	4	0	1	3	19	530	5	562	23	4.12	
Soso	8	1	3	6	23	442	2	485	33	6.92	
Iwaki	7	0	3	5	57	1,122	1	1,195	65	5.47	
Aizu	4	1	2	3	54	755	0	819	60	7.36	
Minami-Aizu	0	0	0	0	8	71	0	79	8	10.13	
Outside of prefecture	0	0	0	0	0	93	0	93	0	0.00	
Total	37	5	17	34	351	6,658	21	7,123	407	5.74	

(2011) (Singletons/twins)

Area	(Singletons/twins) Number of delivery weeks								Premature delivery rate	
	Premature delivery						Number of deliveries			
	12-21 weeks	22-23 weeks	24-27 weeks	28-31 weeks	32-36 weeks	37-41 weeks		42 weeks or more		
	22-36 weeks									
Kempoku	10	1	3	5	84	2,032	6	2,141	93	4.36
Kenchu	14	2	2	15	103	2,509	15	2,660	122	4.61
Kennan	2	2	0	4	23	559	4	594	29	4.90
Soso	2	2	4	4	30	849	4	895	40	4.48
Iwaki	5	2	3	6	64	1,317	10	1,407	75	5.35
Aizu	0	1	0	2	47	845	2	897	50	5.57
Minami -Aizu	0	0	0	0	3	81	0	84	3	3.57
Outside of prefecture	0	0	0	0	0	22	0	22	0	0.00
Total	33	10	12	36	354	8,214	41	8,700	412	4.75

Presence of congenital malformation/abnormality

This targeted singletons after 12 weeks.

(2013)				Number of cases (%)
Area	Yes	No	Invalid responses	Total
Kempoku	42(2.25)	1,789(96.03)	32(1.72)	1,863
Kenchu	46(2.39)	1,826(94.86)	53(2.75)	1,925
Kennan	8(1.40)	549(96.32)	13(2.28)	570
Soso	9(1.74)	495(95.74)	13(2.51)	517
Iwaki	33(2.85)	1,096(94.81)	27(2.34)	1,156
Aizu	19(2.36)	767(95.28)	19(2.36)	805
Minami-Aizu	2(2.44)	80(97.56)	0(0.00)	82
Outside of prefecture	2(1.96)	97(95.10)	3(2.94)	102
Total	161(2.29)	6,699(95.43)	160(2.28)	7,020

Incidence rate of congenital malformation/abnormality: 2.35% (The denominator was the number of valid responses)

(2012)				Number of cases (%)
Area	Yes	No	Invalid response	Total
Kempoku	39(2.16)	1,735(95.96)	34(1.88)	1,808
Kenchu	50(2.48)	1,930(95.54)	40(1.98)	2,020
Kennan	13(2.36)	520(94.55)	17(3.09)	550
Soso	14(2.95)	437(92.00)	24(5.05)	475
Iwaki	25(2.14)	1,117(95.72)	25(2.14)	1,167
Aizu	19(2.37)	761(94.77)	23(2.86)	803
Minami-Aizu	1(1.30)	76(98.70)	0(0.00)	77
Outside of prefecture	2(2.15)	90(96.77)	1(1.08)	93
Total	163(2.33)	6,666(95.32)	164(2.35)	6,993

Incidence rate of congenital malformation/abnormality: 2.39% (The denominator is the number of valid responses)

(2011)				Number of cases (%)
Area	Yes	No	Invalid response	Total
Kempoku	55 (2.60)	1,989 (93.95)	73 (3.45)	2,117
Kenchu	76 (2.92)	2,418 (92.86)	110 (4.22)	2,604
Kennan	22 (3.77)	539 (92.29)	23 (3.94)	584
Soso	19 (2.13)	837 (93.94)	35 (3.93)	891
Iwaki	38 (2.78)	1,271 (92.98)	58 (4.24)	1,367
Aizu	23 (2.63)	825 (94.50)	25 (2.86)	873
Minami-Aizu	0 (0.00)	77 (96.25)	3 (3.75)	80
Outside of prefecture	1 (4.55)	20 (90.91)	1 (4.55)	22
Total	234 (2.74)	7,976 (93.42)	328 (3.84)	8,538

Incidence rate of congenital malformation/abnormality: 2.85% (The denominator is the number of valid responses)

Incidence rate of each disease

These targeted singletons with congenital malformations/abnormalities (multiple answers possible)

(2013)

Area	Cataract	Heart defect	Kidney/urinary tract malformation	Spina bifida	Microcephaly	Hydrocephalus	Cleft lip/palate	Gastrointestinal atresia	Imperforate anus	Polydactyly/syndactyly	Other
Kempoku	0	20	4	0	0	1	1	2	0	3	16
Kenchu	0	16	3	2	0	0	4	1	0	8	17
Kennan	0	3	0	0	0	0	2	0	0	2	2
Soso	0	2	2	1	0	0	0	2	1	2	2
Iwaki	1	14	1	0	0	0	4	1	0	4	8
Aizu	0	6	2	0	0	0	0	0	1	3	8
Minami-Aizu	0	2	0	0	0	0	0	0	0	0	0
Outside of prefecture	0	0	0	0	0	0	0	0	0	0	2
Total	1	63	12	3	0	1	11	6	2	22	55
Area	0.01%	0.92%	0.17%	0.04%	0.00%	0.01%	0.16%	0.09%	0.03%	0.32%	0.80%

※Multiple answers were possible. The denominator of incidence rates was the number of valid responses (total number of those who have responded “yes” or “no”)

Breakdown of “Other”

Singletons with congenital malformations/abnormalities (multiple answers possible)

Ear appendage	7	Oligodactyly	2	Hernia of umbilical cord	1	Congenital chylothorax	1
Club foot	7	Birthmark	2	Absence of both arms	1	Ear deformity	1
Microtia	6	Congenital adrenal hyperplasia	2	18 trisomy	1	Diaphragmatic hernia	1
Down syndrome	4	Absence of scalp	1	Ptosis	1	Malrotation	1
Fistula auris congenita	3	Gastrointestinal perforation	1	Limb-shortening syndrome	1	Methemoglobinemia	1
Chromosomal abnormality	2	Congenital back knee	1	Inguinal hernia	1	Split-hand/ Split-foot malformation	1
Deafness	2	Pes abductus	1	Obstructio ductus nasolacrimalis	1	Brachydactyly	1
Angioma	2	Osteogenesis imperfecta	1	Hypothyroidism	1	Congenital knee dislocation	1

(2012)

Area	Cataract	Heart defect	Kidney/urinary tract malformation	Spina bifida	Microcephaly	Hydrocephalus	Cleft lip/palate	Gastrointestinal atresia	Imperforate anus	Polydactyly/syndactyly	Other
Kempoku	0	8	6	0	0	0	2	2	0	4	19
Kenchu	0	20	5	0	1	0	4	2	0	3	23
Kennan	1	5	1	1	0	2	0	0	0	1	3
Soso	1	6	0	1	0	0	2	1	0	1	4
Iwaki	0	9	2	1	0	0	3	1	1	4	6
Aizu	0	6	0	0	0	0	2	0	1	2	8
Minami-Aizu	0	0	0	0	0	0	0	1	0	0	0
Outside of prefecture	0	0	0	0	0	0	1	0	0	0	1
Total	2	54	14	3	1	2	14	7	2	15	64
Incidence rate	0.03%	0.79%	0.21%	0.04%	0.01%	0.03%	0.21%	0.10%	0.03%	0.22%	0.94%

※Multiple answers were possible. The denominator of incidence rates was the number of valid responses (Total number of people who responded “yes” or “no”)

Breakdown of “other”

Singletons with congenital malformations/abnormalities (multiple choices were allowed)

Ear appendage	10	Albinism	1	Fistula auris congenita	1	Osteogenesis imperfecta	1
Down syndrome	7	Cystic lung adenomatoid deformity	1	Congenital hydrothorax	1	Localized gastrointestinal perforation	1
Deafness	2	Encephalocele	1	Congenital spherocytosis	1	Angioma	1
Malrotation	2	Vestigial remnant between allantois	1	Congenital cytomegalovirus	1	Liver hemangioma	1
Hydrops fetalis	2	Clubfoot	1	Ankyloglossia	1	Pes calcaneovalgus	1
Cavernous hemangioma	2	Craniofacial	1	Toxic erythema of the newborn	1	External auditory canal atresia	1
Diaphragmatic hernia	2	Simple hemangioma	1	Arms hypoplasia	1	Microphthalmia	1
Arachnoidal cyst	2	Dislocation	1	Microtia	1	Dextrocardia	1
Ovarian cyst	1	Chromosomal abnormality	1	Auricle low formation	1	Torticollis	1
Birthmark	1	Congenital knee dislocation	1	Auricle abnormality	1	Inguinal hernia	1
Adrenal hyperplasia	1	Congenital pigmented mole	1	Ear deformity	1	Trisomy 18	1

(2011) Number of cases (%)

Area	Cataract	Heart defect	Kidney/urinary tract malformation	Spina bifida	Microcephaly	Hydrocephalus	Cleft lip/palate	Gastrointestinal arteria	Imperforated anus	Polydactyly/syndactyly	Other	Total
Kempoku	0	20	6	1	0	0	6	1	2	2	23	61
Kenchu	1	22	9	3	1	1	6	2	1	7	33	86
Kennan	0	5	2	0	0	0	0	1	0	2	12	22
Soso	0	5	0	1	0	0	1	1	0	3	9	20
Iwaki	0	14	5	1	0	0	0	1	1	5	16	43
Aizu	0	7	0	0	0	0	2	0	1	3	10	23
Minami-Aizu	0	0	0	0	0	0	0	0	0	0	0	0
Outside of prefecture	0	0	0	0	0	0	0	0	0	0	1	1
Total	1	73	22	6	1	1	15	6	5	22	104	256
Incidence rate	0.01%	0.89%	0.27%	0.07%	0.01%	0.01%	0.18%	0.07%	0.06%	0.27%	1.27%	3.12%

※Multiple answers were possible. The denominator of incidence rates was the number of valid responses (Total number of people who have responded “yes” or “no”)

※Since the total including invalid responses was taken as the denominator in the result report of 2011, the values differed from ones obtained this time.

Breakdown of “other”

Singletons with congenital malformations/abnormalities (multiple answers were possible)

Birth mark	9	Congenital hip dislocation	2	Pes calcaneovalgus	1	Congenital cystic adenomatoid deformity	1
Ear appendage	8	Holoprosencephaly	2	Ptosis	1	Congenital cutis laxa	1
Down syndrome	6	Cryptorchidism	2	Depressor anguli oris muscle	1	Chromosomal abnormality	1
Angioma	5	Chylothorax	2	Depressor anguli oris muscle hypoplasia	1	Hydrops fetalis	1
Inguinal hernia	4	Gastroschisis	2	Laryngomalacia	1	Thanatophoric dysplasia	1
Clubfoot	4	Cleft hand	2	Thyroid abnormalities	1	Malrotation	1
Deafness	4	Trisomy 13	1	Hypothyroidism	1	Craniotabes	1
Infantile hemangioma (strawberry mark)	3	Trisomy 18	1	Lipoma	1	Persistent pupillary membrane	1
Microtia	3	Klinefelter's syndrome	1	Auricle abnormality/meatal atresia	1	Achondroplasia	1
Dermal sinus	3	Rickets	1	Microphthalmia	1	Periventricular leukomalacia	1
Cretinism	2	Cytomegalovirus infection	1	Frenulum of upper lip ankylosis	1	Skin tumor (eye)	1
Hydrocele	2	Prader-Willi syndrome	1	Testicular agenesis (One side)	1	Obstructio ductus nasolacrimalis	1
Torticollis	2	Diaphragmatic hernia	1	Cystic teratoma	1	Congenital adrenal hyperplasia	1
Incontinencia pigmenti	2	Ambiguous genitalia	1	Fistula auris congenita	1	Hernia of the umbilical cord	1
						Neck lymphangioma	1

Presence of congenital malformation/abnormality
This targeted twins after 12 weeks.

(2013)				Number of cases (%)
Area	Yes	No	Invalid responses	Total
Kempoku	2(4.35)	42(91.30)	2(4.35)	46
Kenchu	6(15.00)	33(82.50)	1(2.50)	40
Kennan	0(0.00)	15(93.75)	1(6.25)	16
Soso	0(0.00)	8(80.00)	2(20.00)	10
Iwaki	2(14.29)	10(71.43)	2(14.29)	14
Aizu	1(5.26)	17(89.47)	1(5.26)	19
Minami-Aizu	1(50.00)	1(50.00)	0(0.00)	2
Outside of prefecture	0(0.00)	0(0.00)	0(0.00)	0
Total	12(8.16)	126(85.71)	9(6.12)	147

Since one of the twins was a miscarriage less than 12 weeks, this was omitted; thus, the number is not a multiple of 2.

(2012)				Number of cases (%)
Area	Yes	No	Invalid responses	Total
Kempoku	1 (4.17)	22 (91.67)	1 (4.17)	24
Kenchu	1 (2.63)	37 (97.37)	0 (0.00)	38
Kennan	0 (0.00)	12 (100.00)	0 (0.00)	12
Soso	0 (0.00)	9 (90.0)	1 (10.00)	10
Iwaki	1 (3.57)	23 (82.14)	4 (14.29)	28
Aizu	1 (6.25)	15 (93.75)	0 (0.00)	16
Minami-Aizu	0 (0.00)	2 (100.00)	0 (0.00)	2
Outside of prefecture	0 (0.00)	0 (0.00)	0 (0.00)	0
Total	4 (3.08)	120 (92.31)	6 (4.62)	130

(2011)				Number of cases (%)
Area	Yes	No	Invalid responses	Total
Kempoku	2 (8.33)	19 (79.17)	3 (12.50)	24
Kenchu	3 (5.36)	50 (89.29)	3 (5.36)	56
Kennan	1 (10.00)	9 (90.00)	0 (0.00)	10
Soso	0 (0.00)	4 (100.00)	0 (0.00)	4
Iwaki	0 (0.00)	36 (90.00)	4 (10.00)	40
Aizu	2 (8.33)	20 (83.33)	2 (8.33)	24
Minami-Aizu	0 (0.00)	3 (75.00)	1 (25.00)	4
Outside of prefecture	0 (0.00)	0 (0.00)	0 (0.00)	0
Total	8 (4.94)	141 (87.04)	13 (8.02)	162

Breakdown of diseases

These targeted cases of twins with congenital malformation/abnormality (Multiple answers were possible)

(2013)

Area	Cataract	Heart defect	Kidney/urinary tract malformation	Spina bifida	Microcephaly	Hydrocephalus	Cleft lip/palate	Gastrointestinal arteria	Imperforate anus	Polydactyly/syndactyly	Other
Kempoku	0	1	0	0	0	0	1	0	0	0	1
Kenchu	0	3	0	0	0	2	1	1	0	0	1
Kennan	0	0	0	0	0	0	0	0	0	0	0
Soso	0	0	0	0	0	0	0	0	0	0	0
Iwaki	0	2	0	0	0	0	0	0	0	0	0
Aizu	0	0	0	1	0	0	0	0	0	0	0
Minami-Aizu	0	0	0	0	0	0	0	0	0	0	1
Outside of prefecture	0	0	0	0	0	0	0	0	0	0	0
Total	0	6	0	1	0	2	2	1	0	0	3

Breakdown of “other”

Ear appendage	1 case
Absence of scalp	1 case
Asplenia syndrome	1 case

(2012)

Area	Cataract	Heart defect	Kidney/urinary tract malformation	Spina bifida	Microcephaly	Hydrocephalus	Cleft lip/palate	Gastrointestinal arteria	Imperforate anus	Polydactyly/syndactyly	Other
Kempoku	0	0	0	1	0	0	0	0	0	0	1
Kenchu	0	0	0	0	0	0	0	0	0	0	1
Kennan	0	0	0	0	0	0	0	0	0	0	0
Soso	0	0	0	0	0	0	0	0	0	0	0
Iwaki	0	0	0	0	0	0	1	0	0	0	0
Aizu	0	0	0	1	0	1	0	0	0	0	0
Minami-Aizu	0	0	0	0	0	0	0	0	0	0	0
Outside of prefecture	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	2	0	1	1	0	0	0	2

Breakdown of “other”

Hypothyroidism	1 case
Hernia	1 case

(2011)

Area	Cataract	Heart defect	Kidney/urinary tract malformation	Spina bifida	Microcephaly	Hydrocephalus	Cleft lip/palate	Gastrointestinal arteria	Imperforate anus	Polydactyly/syndactyly	Other
Kempoku	0	0	0	0	0	0	1	0	0	0	1
Kenchu	0	0	0	1	0	0	0	0	0	0	2
Kennan	0	1	0	0	0	0	0	0	0	0	0
Soso	0	0	0	0	0	0	0	0	0	0	0
Iwaki	0	0	0	0	0	0	0	0	0	0	0
Aizu	0	2	0	0	0	0	0	0	0	0	0

Minami -Aizu	0	0	0	0	0	0	0	0	0	0	0
Outside of prefecture	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	1	0	0	1	0	0	0	3

Breakdown of “other”

Congenital cystic adenomatoid deformity	1 case
Hydrops fetalis	1 case

3. Mothers' mental health

Tendency for depression: Number of respondents who answered yes for both, yes for one of them, and no for both.

(2013)					
					Number of cases (%)
Area	Yes for both	Yes for one	No for both	Invalid responses	Total
Kempoku	202(10.6)	300(15.7)	1,401(73.3)	8(0.4)	1,911
Kenchu	190(9.7)	252(12.9)	1,511(77.1)	6(0.3)	1,959
Kennan	62(10.6)	84(14.4)	436(74.8)	1(0.2)	583
Soso	66(12.5)	84(15.9)	376(71.2)	2(0.4)	528
Iwaki	112(9.5)	156(13.3)	906(77.0)	3(0.3)	1,177
Aizu	83(10.1)	108(13.1)	629(76.3)	4(0.5)	824
Minami-Aizu	13(15.7)	14(16.9)	55(66.3)	1(1.2)	83
Outside of prefecture	10(9.8)	17(16.7)	74(72.5)	1(1.0)	102
Total	738(10.3)	1,015(14.2)	5,388(75.2)	26(0.4)	7,167

※Tendency for depression: 24.5% ((“Yes for both” 738 + “Yes for one” 1,015) / Total 7,167 cases)

(2012)					
					Number of cases (%)
Area	Yes for both	Yes for one	No for both	Invalid responses	Total
Kempoku	188(10.2)	295(16.0)	1,363(73.8)	1(0.1)	1,847
Kenchu	225(10.9)	310(15.0)	1,522(73.8)	4(0.2)	2,061
Kennan	47(8.4)	86(15.4)	423(75.5)	4(0.7)	560
Soso	67(13.8)	89(18.3)	330(67.9)	0(0.0)	486
Iwaki	111(9.3)	157(13.1)	928(77.5)	2(0.2)	1,198
Aizu	94(11.5)	117(14.3)	602(73.8)	3(0.4)	816
Minami-Aizu	5(6.4)	9(11.5)	64(82.1)	0(0.0)	78
Outside of prefecture	5(5.4)	17(18.3)	71(76.3)	0(0.0)	93
Total	742(10.4)	1,080(15.1)	5,303(74.3)	14(0.2)	7,139

※Tendency for depression: 25.5% ((“Yes for both” 742 + “Yes for one” 1,080) / Total 7,139 cases)

(2011)					
					Number of cases (%)
Area	Yes for both	Yes for one	No for both	Invalid responses	Total
Kempoku	290(13.4)	350(16.2)	1,482(68.5)	43(2.0)	2,165
Kenchu	344(12.7)	379(14.0)	1,922(71.2)	54(2.0)	2,699
Kennan	77(12.8)	83(13.8)	426(71.0)	14(2.3)	600
Soso	166(18.2)	134(14.7)	584(64.0)	29(3.2)	913
Iwaki	175(12.3)	176(12.4)	1,046(73.6)	25(1.8)	1,422
Aizu	83(9.2)	121(13.3)	686(75.6)	17(1.9)	907
Minami-Aizu	1(1.2)	4(4.8)	76(90.5)	3(3.6)	84
Outside of prefecture	5(22.7)	4(18.2)	12(54.5)	1(4.5)	22
Total	1,141(12.9)	1,251(14.2)	6,234(70.7)	186(2.1)	8,812

※Tendency for depression: 27.1% ((“Yes for both” 1,141 + “Yes for one” 1,251) / Total 8,812)

4. Prenatal/delivery care

Do you think you were able to receive sufficient care regarding prenatal/delivery in general this time?

(2013)						Number of cases (%)	
Area	I strongly think so	I think so	I can't say	I don't think so	I don't think so at all	Invalid responses	Total
Kempoku	511(26.7)	1,171(61.3)	184(9.6)	33(1.7)	9(0.5)	3(0.2)	1,911
Kenchu	500(25.5)	1,187(60.6)	224(11.4)	37(1.9)	8(0.4)	3(0.2)	1,959
Kennan	113(19.4)	372(63.8)	88(15.1)	7(1.2)	1(0.2)	2(0.3)	583
Soso	140(26.5)	296(56.1)	67(12.7)	20(3.8)	3(0.6)	2(0.4)	528
Iwaki	313(26.6)	695(59.0)	140(11.9)	22(1.9)	4(0.3)	3(0.3)	1,177
Aizu	181(22.0)	543(65.9)	80(9.7)	14(1.7)	2(0.2)	4(0.5)	824
Minami-Aizu	19(22.9)	54(65.1)	5(6.0)	3(3.6)	1(1.2)	1(1.2)	83
Outside of prefecture	29(28.4)	65(63.7)	5(4.9)	2(2.0)	0(0.0)	1(1.0)	102
Total	1,806(25.2)	4,383(61.2)	793(11.1)	138(1.9)	28(0.4)	19(0.3)	7,167

(2012)						Number of cases (%)	
Area	I strongly think so	I think so	I can't say	I don't think so	I don't think so at all	Invalid responses	Total
Kempoku	451(24.4)	1,089(59.0)	242(13.1)	49(2.7)	15(0.8)	1(0.1)	1,847
Kenchu	430(20.9)	1,203(58.4)	339(16.4)	61(3.0)	22(1.1)	6(0.3)	2,061
Kennan	94(16.8)	340(60.7)	106(18.9)	14(2.5)	2(0.4)	4(0.7)	560
Soso	89(18.3)	277(57.0)	95(19.5)	18(3.7)	5(1.0)	2(0.4)	486
Iwaki	310(25.9)	694(57.9)	151(12.6)	32(2.7)	7(0.6)	4(0.3)	1,198
Aizu	165(20.2)	509(62.4)	115(14.1)	20(2.5)	3(0.4)	4(0.5)	816
Minami-Aizu	21(26.9)	50(64.1)	5(6.4)	2(2.6)	0(0.0)	0(0.0)	78
Outside of prefecture	42(45.2)	43(46.2)	6(6.5)	2(2.2)	0(0.0)	0(0.0)	93
Total	1,602(22.4)	4,205(58.9)	1,059(14.8)	198(2.8)	54(0.8)	21(0.3)	7,139

Did you continue to receive these services at a facility where you were initially scheduled to receive prenatal examination/delivery?

(2013)				Number of cases (%)	
Area	Yes	No	Invalid responses	Total	
Kempoku	1,597(83.6)	307(16.1)	7(0.4)	1,911	
Kenchu	1,657(84.6)	292(14.9)	10(0.5)	1,959	
Kennan	522(89.5)	60(10.3)	1(0.2)	583	
Soso	450(85.2)	76(14.4)	2(0.4)	528	
Iwaki	1,009(85.7)	159(13.5)	9(0.8)	1,177	
Aizu	712(86.4)	107(13.0)	5(0.6)	824	
Minami-Aizu	70(84.3)	13(15.7)	0(0.0)	83	
Outside of prefecture	65(63.7)	37(36.3)	0(0.0)	102	
Total	6,082(84.9)	1,051(14.7)	34(0.5)	7,167	

Breakdown of “No” (it did not continue) (2013)

Number of cases (%)

Area	Another within prefecture on my own will ₁	Another outside prefecture on my own will ₂	Another within prefecture due to medical reasons ₃	Another outside prefecture due to medical reasons ₄	No response	Total
Kempoku	107(34.9)	58(18.9)	131(42.7)	2(0.7)	9(2.9)	307
Kenchu	88(30.1)	54(18.5)	140(47.9)	3(1.0)	7(2.4)	292
Kennan	23(38.3)	18(30.0)	17(28.3)	2(3.3)	0(0.0)	60
Soso	36(47.4)	15(19.7)	21(27.6)	1(1.3)	3(3.9)	76
Iwaki	34(21.4)	33(20.8)	88(55.3)	2(1.3)	2(1.3)	159
Aizu	26(24.3)	22(20.6)	58(54.2)	0(0.0)	1(0.9)	107
Minami-Aizu	5(38.5)	3(23.1)	5(38.5)	0(0.0)	0(0.0)	13
Outside of prefecture	2(5.4)	32(86.5)	3(8.1)	0(0.0)	0(0.0)	37
Total	321(30.5)	235(22.4)	463(44.1)	10(1.0)	22(2.1)	1,051

1 Decided to change to another facility within prefecture by one's own will, 2 Changed to another facility outside the prefecture by one's own will, 3 Instructed to move (or was transported) to another facility within prefecture due to medical reasons, 4 Instructed to move (or was transported) to another facility outside the prefecture due to medical reasons.

(2012)

Number of cases (%)

Area	Yes	No	Invalid response	Total
Kempoku	1,589(86.0)	248(13.4)	10(0.5)	1,847
Kenchu	1,743(84.6)	307(14.9)	11(0.5)	2,061
Kennan	490(87.5)	68(12.1)	2(0.4)	560
Soso	391(80.5)	92(18.9)	3(0.6)	486
Iwaki	1,038(86.6)	152(12.7)	8(0.7)	1,198
Aizu	703(86.2)	111(13.6)	2(0.2)	816
Minami-Aizu	71(91.0)	7(9.0)	0(0.0)	78
Outside of prefecture	67(72.0)	25(26.9)	1(1.1)	93
Total	6,092(85.3)	1,010(14.1)	37(0.5)	7,139

Breakdown of “No” (did not continue) (2012)

Number of cases (%)

Area	Another within prefecture on my own will ₁	Another outside prefecture on my own will ₂	Another within prefecture due to medical reasons ₃	Another outside prefecture due to medical reasons ₄	No response	Total
Kempoku	70(28.2)	63(25.4)	108(43.5)	2(0.8)	5(2.0)	248
Kenchu	74(24.1)	70(22.8)	151(49.2)	3(1.0)	9(2.9)	307
Kennan	27(39.7)	21(30.9)	20(29.4)	0(0.0)	0(0.0)	68
Soso	34(37.0)	24(26.1)	26(28.3)	7(7.6)	1(1.1)	92
Iwaki	35(23.0)	34(22.4)	82(53.9)	0(0.0)	1(0.7)	152
Aizu	34(30.6)	18(16.2)	57(51.4)	0(0.0)	2(1.8)	111
Minami-Aizu	2(28.6)	1(14.3)	4(57.1)	0(0.0)	0(0.0)	7
Outside of prefecture	4(16.0)	20(80.0)	1(4.0)	0(0.0)	0(0.0)	25
Total	280(27.7)	251(24.9)	449(44.5)	12(1.2)	18(1.8)	1,010

1 Decided to change to another facility within prefecture by one's own will, 2 Changed to another facility outside the prefecture by one's own will, 3 Instructed to move (or was transported) to another facility within prefecture due to medical reasons, 4 Instructed to move (or was transported) to another facility outside the prefecture due to medical reasons.

(2011)				Number of cases (%)
Area	Yes	No	Invalid response	Total
Kempoku	1,860(85.9)	288(13.3)	17(0.8)	2,165
Kenchu	2,050(76.0)	626(23.2)	23(0.9)	2,699
Kennan	497(82.8)	94(15.7)	9(1.5)	600
Soso	236(25.8)	665(72.8)	12(1.3)	913
Iwaki	1,036(72.9)	369(25.9)	17(1.2)	1,422
Aizu	798(88.0)	99(10.9)	10(1.1)	907
Minami-Aizu	78(92.9)	6(7.1)	0(0.0)	84
Outside of prefecture	5(22.7)	17(77.3)	0(0.0)	22
Total	6,560(74.4)	2,164(24.6)	88(1.0)	8,812

Breakdown of “No” (did not continue) (2011)

							Number of cases (%)
Area	Another within prefecture on my own will ₁	Another outside prefecture on my own will ₂	Returned to hometown within prefecture ₃	Returned to hometown outside prefecture ₄	Another within prefecture due to medical reasons ₅	Another outside prefecture due to medical reasons ₆	Number of valid responses
Kempoku	54(19.4)	163(58.4)	5(1.8)	9(3.2)	51(18.3)	2(0.7)	279
Kenchu	153(26.0)	292(49.7)	7(1.2)	15(2.6)	124(21.1)	7(1.2)	588
Kennan	24(27.6)	42(48.3)	3(3.4)	1(1.1)	17(19.5)	1(1.1)	87
Soso	283(43.4)	357(54.8)	4(0.6)	10(1.5)	29(4.4)	8(1.2)	652
Iwaki	67(18.8)	242(67.8)	4(1.1)	9(2.5)	34(9.5)	12(3.4)	357
Aizu	31(32.6)	24(25.3)	4(4.2)	1(1.1)	36(37.9)	2(2.1)	95
Minami-Aizu	2(33.3)	1(16.7)	1(16.7)	0(0.0)	1(16.7)	1(16.7)	6
Outside of prefecture	0(0.0)	17(100.0)	0(0.0)	0(0.0)	0(0.0)	0(0.0)	17
Total	614(29.5)	1,138(54.7)	28(1.3)	45(2.2)	292(14.0)	33(1.6)	2,081

The denominator was the number of respondents (Valid responses: 2,081). Since there were multiple responses, the total of percentage exceeds 100%.

※ Since the total number including multiple responses were used as the denominator for the result report of 2011, the figures differ from the ones obtained this time.

1 Decided to change to another facility within prefecture by one's own will, 2 Changed to another facility outside the prefecture by one's own will, 3 Returned to hometown within the prefecture from before the disaster to receive examination at a different facility, 4 Returned to hometown outside the prefecture from before the disaster to receive examination at a different facility, 5 Instructed to move (or was transported) to another facility within prefecture due to medical reasons, 6 Instructed to move (or was transported) to another facility outside the prefecture due to medical reasons.

Were you able to receive the prenatal examination this time according to the previously determined schedule?

(2013)

Number of cases (%)

Area	Yes	No	Invalid response	Total
Kempoku	1,850(96.8)	55(2.9)	6(0.3)	1,911
Kenchu	1,904(97.2)	44(2.2)	11(0.6)	1,959
Kennan	574(98.5)	7(1.2)	2(0.3)	583
Soso	517(97.9)	9(1.7)	2(0.4)	528
Iwaki	1,156(98.2)	15(1.3)	6(0.5)	1,177
Aizu	802(97.3)	17(2.1)	5(0.6)	824
Minami-Aizu	80(96.4)	3(3.6)	0(0.0)	83
Outside of prefecture	96(94.1)	6(5.9)	0(0.0)	102
Total	6,979(97.4)	156(2.2)	32(0.4)	7,167

Breakdown of “No” (I was unable to receive examination as scheduled) (2013)

Number of cases (%)

Area	Issues with pregnancy course	No issues with pregnancy course	No response	Total
Kempoku	10(18.2)	43(78.2)	2(3.6)	55
Kenchu	14(31.8)	28(63.6)	2(4.5)	44
Kennan	1(14.3)	6(85.7)	0(0.0)	7
Soso	3(33.3)	6(66.7)	0(0.0)	9
Iwaki	3(20.0)	10(66.7)	2(13.3)	15
Aizu	8(47.1)	8(47.1)	1(5.9)	17
Minami-Aizu	1(33.3)	2(66.7)	0(0.0)	3
Outside of prefecture	2(33.3)	4(66.7)	0(0.0)	6
Total	42(26.9)	107(68.6)	7(4.5)	156

(2012)

Number of cases (%)

Area	Yes	No	No response	Total
Kempoku	1,792(97.0)	46(2.5)	9(0.5)	1,847
Kenchu	1,999(97.0)	49(2.4)	13(0.6)	2,061
Kennan	548(97.9)	9(1.6)	3(0.5)	560
Soso	472(97.1)	12(2.5)	2(0.4)	486
Iwaki	1,169(97.6)	22(1.8)	7(0.6)	1,198
Aizu	795(97.4)	19(2.3)	2(0.2)	816
Minami-Aizu	78(100.0)	0(0.0)	0(0.0)	78
Outside of prefecture	91(97.8)	1(1.1)	1(1.1)	93
Total	6,944(97.3)	158(2.2)	37(0.5)	7,139

Breakdown of “No” (I was unable to receive examination as scheduled) (2012)

Number of cases (%)

Area	Issues with pregnancy course	No issues with pregnancy course	No response	Total
Kempoku	9(19.6)	36(78.3)	1(2.2)	46
Kenchu	14(28.6)	34(69.4)	1(2.0)	49
Kennan	3(33.3)	6(66.7)	0(0.0)	9
Soso	5(41.7)	5(41.7)	2(16.7)	12
Iwaki	7(31.8)	15(68.2)	0(0.0)	22
Aizu	4(21.1)	14(73.7)	1(5.3)	19
Minami-Aizu	0(0.0)	0(0.0)	0(0.0)	0
Outside of prefecture	0(0.0)	1(100.0)	0(0.0)	1
Total	42(26.6)	111(70.3)	5(3.2)	158

(2011)				Number of cases (%)
Area	Yes	No	Invalid response	Total
Kempoku	1,849(85.4)	307(14.2)	9(0.4)	2,165
Kenchu	2,221(82.3)	453(16.8)	25(0.9)	2,699
Kennan	504(84.0)	88(14.7)	8(1.3)	600
Soso	596(65.3)	306(33.5)	11(1.2)	913
Iwaki	965(67.9)	437(30.7)	20(1.4)	1,422
Aizu	843(92.9)	53(5.8)	11(1.2)	907
Minami-Aizu	79(94.0)	5(6.0)	0(0.0)	84
Outside of prefecture	15(68.2)	7(31.8)	0(0.0)	22
Total	7,072(80.3)	1,656(18.8)	84(1.0)	8,812

The breakdown of “No” (I was unable to receive examination as scheduled) (2011) Number of cases (%)

Area	I was unable to receive examinations as scheduled and was hospitalized	I was unable to receive examinations as scheduled, but there were no issues	Invalid response	Total
Kempoku	32(10.4)	269(87.6)	6(2.0)	307
Kenchu	46(10.2)	395(87.2)	12(2.6)	453
Kennan	7(8.0)	77(87.5)	4(4.5)	88
Soso	30(9.8)	270(88.2)	6(2.0)	306
Iwaki	37(8.5)	395(90.4)	5(1.1)	437
Aizu	19(35.8)	34 (64.2)	0(0.0)	53
Minami-Aizu	0(0.0)	5(100.0)	0(0.0)	5
Outside of prefecture	0(0.0)	7(100.0)	0(0.0)	7
Total	171(10.3)	1,452(87.7)	33(2.0)	1,656

5. Household and child rearing situations

State of evacuation (Are you currently taking shelter?)

(2013)						Number of cases (%)
Area	Taking shelter in temporary housing	Taking shelter in some place other than temporary housing	Currently living at home	No evacuation	Invalid responses	Total
Kempoku	5(0.3)	43(2.3)	425(22.2)	1,394(72.9)	44(2.3)	1,911
Kenchu	3(0.2)	35(1.8)	544(27.8)	1,327(67.7)	50(2.6)	1,959
Kennan	0(0.0)	4(0.7)	65(11.1)	502(86.1)	12(2.1)	583
Soso	41(7.8)	228(43.2)	165(31.3)	87(16.5)	7(1.3)	528
Iwaki	2(0.2)	23(2.0)	682(57.9)	441(37.5)	29(2.5)	1,177
Aizu	0(0.0)	9(1.1)	36(4.4)	753(91.4)	26(3.2)	824
Minami-Aizu	0(0.0)	0(0.0)	5(6.0)	74(89.2)	4(4.8)	83
Outside of prefecture	0(0.0)	6(5.9)	5(4.9)	87(85.3)	4(3.9)	102
Total	51(0.7)	348(4.9)	1,927(26.9)	4,665(65.1)	176(2.5)	7,167

(2012)

Number of cases (%)

Area	Taking shelter in temporary housing	Taking shelter in some place other than temporary housing	Currently living at home	No evacuation	Invalid responses	Total
Kempoku	3(0.2)	87(4.7)	630(34.1)	1,115(60.4)	12(0.6)	1,847
Kenchu	4(0.2)	83(4.0)	955(46.3)	1,005(48.8)	14(0.7)	2,061
Kennan	1(0.2)	12(2.1)	106(18.9)	437(78.0)	4(0.7)	560
Soso	47(9.7)	251(51.6)	140(28.8)	41(8.4)	7(1.4)	486
Iwaki	5(0.4)	40(3.3)	863(72.0)	281(23.5)	9(0.8)	1,198
Aizu	0(0.0)	13(1.6)	41(5.0)	760(93.1)	2(0.2)	816
Minami-Aizu	0(0.0)	1(1.3)	3(3.8)	73(93.6)	1(1.3)	78
Outside of prefecture	0(0.0)	6(6.5)	9(9.7)	76(81.7)	2(2.2)	93
Total	60(0.8)	493(6.9)	2,747(38.5)	3,788(53.1)	51(0.7)	7,139

Have you ever lost confidence in child rearing?

(2013) ※Only those who have given birth

Number of cases (%)

Area	Yes	No	Cannot say	Invalid responses	Total
Kempoku	364(19.3)	821(43.5)	690(36.5)	13(0.7)	1,888
Kenchu	354(18.3)	826(42.6)	741(38.3)	16(0.8)	1,937
Kennan	104(18.1)	277(48.2)	189(32.9)	5(0.9)	575
Soso	92(17.7)	227(43.7)	198(38.1)	3(0.6)	520
Iwaki	159(13.7)	580(50.1)	407(35.1)	12(1.0)	1,158
Aizu	123(15.1)	379(46.4)	308(37.7)	6(0.7)	816
Minami-Aizu	18(22.0)	30(36.6)	33(40.2)	1(1.2)	82
Outside of prefecture	27(26.5)	36(35.3)	39(38.2)	0(0.0)	102
Total	1,241(17.5)	3,176(44.9)	2,605(36.8)	56(0.8)	7,078

(2012) ※Only those who have given birth

Number of cases (%)

Area	Yes	No	Cannot say	Invalid responses	Total
Kempoku	302(16.7)	804(44.4)	682(37.6)	24(1.3)	1,812
Kenchu	325(16.0)	902(44.4)	785(38.6)	21(1.0)	2,033
Kennan	80(14.5)	262(47.5)	205(37.1)	5(0.9)	552
Soso	71(15.1)	206(43.8)	181(38.5)	12(2.6)	470
Iwaki	139(11.8)	613(52.1)	410(34.9)	14(1.2)	1,176
Aizu	139(17.3)	368(45.8)	290(36.1)	7(0.9)	804
Minami-Aizu	9(11.5)	38(48.7)	31(39.7)	0(0.0)	78
Outside of prefecture	19(20.4)	29(31.2)	43(46.2)	2(2.2)	93
Total	1,084(15.4)	3,222(45.9)	2,627(37.4)	85(1.2)	7,018

Children's nourishment methods (what is the nourishment methods of your child until now (until beginning baby food))?

(2013) ※Only those who have given birth

Number of cases (%)

Area	Only breast milk	Combination of milk and breast milk	Only milk	Invalid responses	Total
Kempoku	740(39.2)	1,015(53.8)	127(6.7)	6(0.3)	1,888
Kenchu	686(35.4)	1,071(55.3)	171(8.8)	9(0.5)	1,937
Kennan	184(32.0)	312(54.3)	77(13.4)	2(0.3)	575
Soso	184(35.4)	269(51.7)	67(12.9)	0(0.0)	520
Iwaki	464(40.1)	596(51.5)	91(7.9)	7(0.6)	1,158
Aizu	260(31.9)	486(59.6)	69(8.5)	1(0.1)	816
Minami-Aizu	27(32.9)	44(53.7)	10(12.2)	1(1.2)	82
Outside of prefecture	42(41.2)	56(54.9)	4(3.9)	0(0.0)	102
Total	2,587(36.5)	3,849(54.4)	616(8.7)	26(0.4)	7,078

(2012) ※Only those who have given birth

Number of cases (%)

Area	Only breast milk	Combination of milk and breast milk	Only milk	Invalid responses	Total
Kempoku	670(37.0)	996(55.0)	136(7.5)	10(0.6)	1,812
Kenchu	675(33.2)	1,140(56.1)	207(10.2)	11(0.5)	2,033
Kennan	158(28.6)	326(59.1)	67(12.1)	1(0.2)	552
Soso	146(31.1)	257(54.7)	63(13.4)	4(0.9)	470
Iwaki	466(39.6)	603(51.3)	99(8.4)	8(0.7)	1,176
Aizu	272(33.8)	432(53.7)	97(12.1)	3(0.4)	804
Minami-Aizu	32(41.0)	35(44.9)	11(14.1)	0(0.0)	78
Outside of prefecture	50(53.8)	40(43.0)	1(1.1)	2(2.2)	93
Total	2,469(35.2)	3,829(54.6)	681(9.7)	39(0.6)	7,018

(2011)

Number of cases (%)

Area	Only breast milk	Combination of milk and breast milk	Only milk	Invalid responses	Total
Kempoku	689(32.4)	1,318(62.1)	112(5.3)	5(0.2)	2,124
Kenchu	759(29.0)	1,655(63.3)	193 (7.4)	9(0.3)	2,616
Kennan	168(28.6)	360(61.2)	59(10.0)	1(0.2)	588
Soso	241(26.9)	549(61.2)	100(11.1)	7(0.8)	897
Iwaki	484(35.0)	822(59.4)	74(5.3)	4(0.3)	1,384
Aizu	238(26.8)	594(66.9)	55(6.2)	1(0.1)	888
Minami-Aizu	33(40.2)	45(54.9)	4(4.9)	0(0.0)	82
Outside of prefecture	5(22.7)	14(63.6)	2(9.1)	1(4.5)	22
Total	2,617(30.4)	5,357(62.3)	599 (7.0)	28(0.3)	8,601

Reasons for using milk (for individuals who use combination of breast milk and milk as well as those who only use milk)

(2013)

Number of cases (%)

Area	Not enough breast milk	Concerns for effects of radiation on breast milk	Other	Valid responses
Kempoku	856(75.2)	16(1.4)	303(26.6)	1,138
Kenchu	961(77.8)	24(1.9)	290(23.5)	1,236
Kennan	305(80.1)	5(1.3)	80(21.0)	381
Soso	229(69.0)	10(3.0)	106(31.9)	332
Iwaki	511(75.3)	16(2.4)	169(24.9)	679
Aizu	432(78.1)	5(0.9)	130(23.5)	553
Minami-Aizu	39(73.6)	0(0.0)	17(32.1)	53
Outside of prefecture	47(78.3)	0(0.0)	15(25.0)	60
Total	3,380(76.3)	76(1.7)	1,110(25.0)	4,432

※The denominator is the number of valid responses (those who described “the reason for using milk” among the ones who responded “combination of milk and breast milk” or “only milk”).

※Since there are multiple responses, the total of percentages does not equal 100.0%.

(2012)

Number of cases (%)

Area	Not enough breast milk	Concerns for effects of radiation on breast milk	Other	Valid responses
Kempoku	884(78.7)	43(3.8)	238(21.2)	1,123
Kenchu	1,022(76.4)	113(8.4)	291(21.7)	1,338
Kennan	324(83.3)	27(6.9)	62(15.9)	389
Soso	246(77.6)	25(7.9)	63(19.9)	317
Iwaki	512(73.8)	52(7.5)	163(23.5)	694
Aizu	407(78.0)	13(2.5)	130(24.9)	522
Minami-Aizu	37(82.2)	2(4.4)	7(15.6)	45
Outside of prefecture	31(75.6)	1(2.4)	10(24.4)	41
Total	3,463(77.5)	276(6.2)	964(21.6)	4,469

※The denominator is the number of valid responses (those who described “the reason for using milk” among the ones who responded “combination of milk and breast milk” or “only milk”).

※Since there are multiple responses, the total of percentages does not equal 100.0%.

(2011)

Number of cases (%)

Area	Not enough breast milk	Concerns for effects of radiation on breast milk	Other	Valid responses
Kempoku	1,037(73.1)	248(17.5)	295(20.8)	1,418
Kenchu	1,305(71.6)	410(22.5)	318(17.4)	1,823
Kennan	277(66.6)	113(27.2)	85(20.4)	416
Soso	460(71.5)	150(23.3)	98(15.2)	643
Iwaki	619(70.0)	180(20.4)	188(21.3)	884
Aizu	512(80.1)	59(9.2)	112(17.5)	639
Minami-Aizu	39(79.6)	6(12.2)	7(14.3)	49
Outside of prefecture	12(75.0)	1(6.3)	4(25.0)	16
Total	4,261(72.4)	1,167(19.8)	1,107(18.8)	5,888

※The denominator is the number of valid responses (those who described “the reason for using milk” among the ones who responded “combination of milk and breast milk” or “only milk”).

※Since there are multiple responses, the total percentage does not equal 100.0%.

※Since the total number including multiple responses were used as the denominator for the result report of 2011, the figures differ from the ones obtained this time.

6. Wish for next pregnancy and requests for medical institutions

Are you considering another pregnancy/delivery?

(2013)

Number of cases (%)

Area	Yes (I am planning to)	No (I am not planning to)	No response	Total
Kempoku	1,005(52.6)	878(45.9)	28(1.5)	1,911
Kenchu	1,042(53.2)	884(45.1)	33(1.7)	1,959
Kennan	305(52.3)	267(45.8)	11(1.9)	583
Soso	274(51.9)	243(46.0)	11(2.1)	528
Iwaki	600(51.0)	559(47.5)	18(1.5)	1,177
Aizu	453(55.0)	363(44.1)	8(1.0)	824
Minami-Aizu	41(49.4)	41(49.4)	1(1.2)	83
Outside of prefecture	67(65.7)	34(33.3)	1(1.0)	102
Total	3,787(52.8)	3,269(45.6)	111(1.5)	7,167

Services desired by those who answered “considering another pregnancy”

Number of cases (%)

Area	Improvement of system	Expansion of childcare services	Information and services	Radiation information	Other	Valid responses
Kempoku	572(59.0)	701(72.3)	628(64.7)	393(40.5)	107(11.0)	970
Kenchu	582(58.6)	717(72.1)	626(63.0)	438(44.1)	107(10.8)	994
Kennan	159(53.5)	197(66.3)	204(68.7)	111(37.4)	20(6.7)	297
Soso	116(44.8)	160(61.8)	195(75.3)	119(45.9)	29(11.2)	259
Iwaki	322(55.4)	406(69.9)	398(68.5)	256(44.1)	56(9.6)	581
Aizu	256(59.4)	303(70.3)	283(65.7)	144(33.4)	47(10.9)	431
Minami-Aizu	16(42.1)	18(47.4)	27(71.1)	13(34.2)	4(10.5)	38
Outside of prefecture	37(56.1)	49(74.2)	45(68.2)	24(36.4)	10(15.2)	66
Total	2,060(56.7)	2,551(70.2)	2,406(66.2)	1,498(41.2)	380(10.5)	3,636

※The denominator is the number of valid responses (those who have answered “yes” for the question about wish for another pregnancy and provided answers to “services that you would want related to next pregnancy/delivery.”). Since there are multiple responses, the total of percentages does not equal 100.0%.

Reasons for not considering another pregnancy

Number of cases (%)

Area	I simply don't wish to	Unstable income	Absence of people who would provide help	No facilities (day care center, etc.)	Currently occupied with child(ren)	Evacuation life
Kempoku	412(47.1)	187(21.4)	91(10.4)	54(6.2)	311(35.5)	5(0.6)
Kenchu	453(51.3)	213(24.1)	99(11.2)	71(8.0)	341(38.6)	1(0.1)
Kennan	152(57.6)	59(22.3)	25(9.5)	15(5.7)	87(33.0)	0(0.0)
Sousou	116(47.9)	43(17.8)	22(9.1)	19(7.9)	90(37.2)	22(9.1)
Iwaki	277(49.9)	120(21.6)	52(9.4)	23(4.1)	191(34.4)	4(0.7)
Aizu	185(51.2)	74(20.5)	32(8.9)	26(7.2)	128(35.5)	0(0.0)
Minami-Aizu	18(43.9)	12(29.3)	4(9.8)	2(4.9)	11(26.8)	0(0.0)
Outside of prefecture	16(47.1)	4(11.8)	5(14.7)	2(5.9)	8(23.5)	0(0.0)
Total	1,629(50.0)	712(21.9)	330(10.1)	212(6.5)	1,167(35.9)	32(1.0)

Area	Dispersed family members	Age and health	Effects of radiation	Other	Valid responses
Kempoku	13(1.5)	311(35.5)	38(4.3)	143(16.3)	875
Kenchu	15(1.7)	283(32.0)	64(7.2)	119(13.5)	883
Kennan	5(1.9)	82(31.1)	22(8.3)	39(14.8)	264
Soso	10(4.1)	85(35.1)	19(7.9)	35(14.5)	242
Iwaki	8(1.4)	177(31.9)	28(5.0)	93(16.8)	555
Aizu	4(1.1)	114(31.6)	8(2.2)	51(14.1)	361
Minami-Aizu	0(0.0)	11(26.8)	1(2.4)	9(22.0)	41
Outside of prefecture	3(8.8)	9(26.5)	2(5.9)	4(11.8)	34
Total	58(1.8)	1,072(32.9)	182(5.6)	493(15.1)	3,255

※The denominator is the number of valid responses (those who answered “no” and provided a “reason for not considering another pregnancy”). Since there are multiple responses, the total of percentages does not equal 100.0%.

(2012) Number of cases (%)

Area	Yes (I am planning to)	No (I am not planning to)	No response	Total
Kempoku	990(53.6)	825(44.7)	32(1.7)	1,847
Kenchu	1,100(53.4)	926(44.9)	35(1.7)	2,061
Kennan	286(51.1)	267(47.7)	7(1.3)	560
Soso	244(50.2)	232(47.7)	10(2.1)	486
Iwaki	617(51.5)	555(46.3)	26(2.2)	1,198
Aizu	439(53.8)	364(44.6)	13(1.6)	816
Minami-Aizu	40(51.3)	37(47.4)	1(1.3)	78
Outside of prefecture	59(63.4)	33(35.5)	1(1.1)	93
Total	3,775(52.9)	3,239(45.4)	125(1.8)	7,139

Services desired by those who answered “considering another pregnancy”

Number of cases (%)

Area	Improvement of system	Expansion of childcare services	Information and services	Radiation information	Other	Valid responses
Kempoku	499(52.0)	639(66.6)	657(68.5)	577(60.2)	58(6.0)	959
Kenchu	551(50.9)	738(68.1)	781(72.1)	700(64.6)	78(7.2)	1,083
Kennan	146(53.1)	180(65.5)	189(68.7)	167(60.7)	23(8.4)	275
Soso	98(41.2)	135(56.7)	186(78.2)	146(61.3)	15(6.3)	238
Iwaki	308(50.7)	385(63.4)	451(74.3)	389(64.1)	37(6.1)	607
Aizu	241(57.0)	304(71.9)	277(65.5)	203(48.0)	27(6.4)	423
Minami-Aizu	18(46.2)	18(46.2)	32(82.1)	12(30.8)	8(20.5)	39
Outside of prefecture	32(56.1)	36(63.2)	40(70.2)	26(45.6)	1(1.8)	57
Total	1,893(51.4)	2,435(66.2)	2,613(71.0)	2,220(60.3)	247(6.7)	3,681

※The denominator is the number of valid responses (those who have answered “yes” and provided answers to “services that you would want related to next pregnancy/delivery”). Since there are multiple responses, the total of percentages does not equal 100.0%.

Reasons for not considering another pregnancy

Number of cases (%)

Area	I simply don't wish to	Unstable income	Absence of people who would provide help	No facilities (day care center, etc.)	Currently occupied with child(ren)	Evacuation life
Kempoku	421(51.2)	193(23.5)	73(8.9)	40(4.9)	277(33.7)	6(0.7)
Kenchu	489(53.4)	260(28.4)	102(11.1)	84(9.2)	346(37.8)	9(1.0)
Kennan	160(59.9)	59(22.1)	25(9.4)	14(5.2)	74(27.7)	1(0.4)
Soso	112(48.7)	59(25.7)	24(10.4)	14(6.1)	100(43.5)	56(24.3)
Iwaki	282(51.4)	149(27.1)	41(7.5)	36(6.6)	187(34.1)	3(0.5)
Aizu	184(51.4)	91(25.4)	39(10.9)	28(7.8)	143(39.9)	2(0.6)
Minami-Aizu	21(56.8)	10(27.0)	3(8.1)	1(2.7)	15(40.5)	0(0.0)
Outside of prefecture	21(63.6)	7(21.2)	3(9.1)	5(15.2)	11(33.3)	1(3.0)
Total	1,690(52.6)	828(25.8)	310(9.7)	222(6.9)	1,153(35.9)	78(2.4)

Area	Dispersed family members	Age and health	Effects of radiation	Other	Valid responses
Kempoku	15(1.8)	297(36.1)	103(12.5)	15(1.8)	822
Kenchu	19(2.1)	274(29.9)	193(21.1)	23(2.5)	916
Kennan	4(1.5)	87(32.6)	34(12.7)	6(2.2)	267
Soso	21(9.1)	61(26.5)	37(16.1)	4(1.7)	230
Iwaki	8(1.5)	181(33.0)	78(14.2)	17(3.1)	549
Aizu	9(2.5)	99(27.7)	27(7.5)	10(2.8)	358
Minami-Aizu	0(0.0)	10(27.0)	2(5.4)	4(10.8)	37
Outside of prefecture	2(6.1)	3(9.1)	1(3.0)	2(6.1)	33
Total	78(2.4)	1,012(31.5)	475(14.8)	81(2.5)	3,212

※The denominator is the number of valid responses (those who answered “no” and provided a “reason for not considering another pregnancy”). Since there are multiple responses, the total of percentage does not equal 100.0%.

7. Phone support situation

(2013) People (%)

Area	Mental care support	Support by free entry contents	Number of people who require support
Kempoku	202 (70.1)	86 (29.9)	288
Kenchu	190 (64.0)	107 (36.0)	297
Kennan	62 (68.9)	28 (31.1)	90
Soso	67 (75.3)	22 (24.7)	89
Iwaki	113 (66.1)	58 (33.9)	171
Aizu	83 (67.5)	40 (32.5)	123
Minami-Aizu	13 (76.5)	4 (23.5)	17
Outside of prefecture	11 (47.8)	12 (52.2)	23
Total	741 (67.5)	357 (32.5)	1,098

(2012) People (%)

Area	Mental care support	Support by free entry contents	Number of people who require support
Kempoku	188 (67.6)	90 (32.4)	278
Kenchu	227 (67.0)	112 (33.0)	339
Kennan	47 (65.3)	25 (34.7)	72
Soso	71 (75.5)	23 (24.5)	94
Iwaki	112 (65.9)	58 (34.1)	170
Aizu	95 (71.4)	38 (28.6)	133
Minami-Aizu	6 (66.7)	3 (33.3)	9
Outside of prefecture	5 (55.6)	4 (44.4)	9
Total	751 (68.0)	353 (32.0)	1,104

(2011) People (%)

Area	Mental care support	Support by free entry contents	Number of people who require support
Kempoku	314 (90.0)	35 (10.0)	349
Kenchu	361 (87.8)	50 (12.2)	411
Kennan	81 (82.7)	17 (17.3)	98
Soso	175 (84.5)	32 (15.5)	207
Iwaki	192 (87.7)	27 (12.3)	219
Aizu	95 (87.2)	14 (12.8)	109
Minami-Aizu	1 (50.0)	1 (50.0)	2
Outside of prefecture	5 (83.3)	1 (16.7)	6
Total	1,224 (87.4)	177 (12.6)	1,401

Ratios of principal topics for consultation

(2013)

Number of cases (%)

Area	Matters regarding the impact and concern of radiation	Matters regarding mother's mental and physical state	Matters regarding childrearing (daily life)	Matters regarding child(ren)'s mental and physical state	Matters regarding evacuation life	Matters regarding domestic life	Other	Number of people who require support
Kempoku	41 (14.2)	133 (46.2)	133 (46.2)	56 (19.4)	6 (2.1)	60 (20.8)	89 (30.9)	288
Kenchu	62 (20.9)	107 (36.0)	105 (35.4)	63 (21.2)	1 (0.3)	67 (22.6)	102 (34.3)	297
Kennan	19 (21.1)	48 (53.3)	33 (36.7)	18 (20.0)	2 (2.2)	24 (26.7)	19 (21.1)	90
Soso	14 (15.7)	41 (46.1)	37 (41.6)	19 (21.3)	11 (12.4)	17 (19.1)	26 (29.2)	89
Iwaki	32 (18.7)	69 (40.4)	53 (31.0)	35 (20.5)	3 (1.8)	25 (14.6)	69 (40.4)	171
Aizu	13 (10.6)	51 (41.5)	43 (35.0)	26 (21.1)	0 (0.0)	20 (16.3)	46 (37.4)	123
Minami-Aizu	3 (17.6)	9 (52.9)	8 (47.1)	2 (11.8)	0 (0.0)	2 (11.8)	5 (29.4)	17
Outside of prefecture	4 (17.4)	8 (34.8)	14 (60.9)	4 (17.4)	0 (0.0)	3 (13.0)	5 (21.7)	23
Total	188 (17.1)	466 (42.4)	426 (38.8)	223 (20.3)	23 (2.1)	218 (19.9)	361 (32.9)	1,098

※The denominator is the number of valid responses (number of people who require support. Since there are multiple responses, the total of percentages does not equal 100.0%.

(2012)

Number of cases (%)

Area	Matters regarding the impact and concern of radiation	Matters regarding mother's mental and physical state	Matters regarding childrearing (daily life)	Matters regarding child(ren)'s mental and physical state	Matters regarding evacuation life	Matters regarding domestic life	Other	Number of people who require support
Kempoku	70 (25.2)	92 (33.1)	92 (33.1)	32 (11.5)	5 (1.8)	27 (9.7)	74 (26.6)	278
Kenchu	83 (24.5)	105 (31.0)	79 (23.3)	44 (13.0)	9 (2.7)	43 (12.7)	101 (29.8)	339
Kennan	19 (26.4)	27 (37.5)	20 (27.8)	11 (15.3)	1 (1.4)	10 (13.9)	22 (30.6)	72
Soso	15 (16.0)	28 (29.8)	21 (22.3)	14 (14.9)	6 (6.4)	6 (6.4)	34 (36.2)	94
Iwaki	47 (27.6)	65 (38.2)	47 (27.6)	29 (17.1)	0 (0.0)	14 (8.2)	48 (28.2)	170
Aizu	24 (18.0)	47 (35.3)	30 (22.6)	16 (12.0)	0 (0.0)	9 (6.8)	48 (36.1)	133
Minami-Aizu	1 (11.1)	4 (44.4)	4 (44.4)	2 (22.2)	0 (0.0)	4 (44.4)	2 (22.2)	9
Outside of prefecture	3 (33.3)	1 (11.1)	2 (22.2)	0 (0.0)	0 (0.0)	1 (11.1)	5 (55.6)	9
Total	262 (23.7)	369 (33.4)	295 (26.7)	148 (13.4)	21 (1.9)	114 (10.3)	334 (30.3)	1,104

※The denominator is the number of valid responses (number of people who require support. Since there are multiple responses, the total of percentages does not equal 100.0%.

(2011)

Number of cases (%)

Area	Matters regarding the impact and concern of radiation	Matters regarding mother's mental and physical state	Matters regarding child rearing (daily life)	Matters regarding child(ren)'s mental and physical state	Matters regarding evacuation life	Matters regarding domestic life	Other	Number of people who require support
Kempoku	113 (32.4)	70 (20.1)	67 (19.2)	30 (8.6)	32 (9.2)	15 (4.3)	120 (34.4)	349
Kenchu	129 (31.4)	79 (19.2)	49 (11.9)	41 (10.0)	39 (9.5)	20 (4.9)	144 (35.0)	411
Kennan	31 (31.6)	12 (12.2)	12 (12.2)	12 (12.2)	2 (2.0)	4 (4.1)	41 (41.8)	98
Soso	45 (21.7)	45 (21.7)	26 (12.6)	24 (11.6)	45 (21.7)	14 (6.8)	73 (35.3)	207
Iwaki	62 (28.3)	49 (22.4)	33 (15.1)	27 (12.3)	11 (5.0)	10 (4.6)	83 (37.9)	219
Aizu	28 (25.7)	25 (22.9)	9 (8.3)	12 (11.0)	1 (0.9)	6 (5.5)	45 (41.3)	109
Minami-Aizu	0 (0.0)	1 (50.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (50.0)	2
Outside of prefecture	1 (16.7)	2 (33.3)	0 (0.0)	1 (16.7)	0 (0.0)	0 (0.0)	2 (33.3)	6
Total	409 (29.2)	283 (20.2)	196 (14.0)	147 (10.5)	130 (9.3)	69 (4.9)	509 (36.3)	1,401

※The denominator is the number of valid responses (number of people who require support). Since there are multiple responses, the total of percentages does not equal 100.0%.

※Since the denominator was the total number including multiple responses for the 2011 result report, the figures differ from the ones obtained this time.

8. Free entry

Breakdown of topics

(2013)

7,167 Respondents, 861 free entries (12.0%)

Cases (%)

Opinions/complaints about this survey	146 (17.0)
The impact of radiation on the fetus/child	112 (13.0)
Bad physical condition	97 (11.3)
Child-rearing consultation (Baby food, how to make them play, how to interact)	91 (10.6)
Requests for distributing information regarding radiation and publication of research results	80 (9.3)
Improving medical service and requests regarding physical care	66 (7.7)
Complaints of their own mental issues	64 (7.4)
Impact of radiation on baby food/food	61 (7.1)
Concerns regarding the impact of radiation on water	53 (6.2)
Requests regarding the improvement of child-rearing support service	46 (5.3)
Concerns of radiation while going/playing outside	43 (5.0)
Concerns and complaints regarding insufficient medical service	43 (5.0)
Approval of this study	35 (4.1)
Concerns and complaints regarding the reliability/insufficiency of information	28 (3.3)
Request regarding overall test/health examination	27 (3.1)
Requests for decontamination/playgrounds	23 (2.7)
Human relations (workplace, household, etc.) ※※※	22 (2.6)
Related to the outcome of this pregnancy	21 (2.4)
The impact of radiation on breast milk/milk	20 (2.3)
Concerns and complaints regarding family separation/evacuation	19 (2.2)
Matters regarding economic concern/burden	19 (2.2)
Requests for thyroid tests	13 (1.5)
Requests for economic support	12 (1.4)
Requests regarding internal exposure (whole body counter, etc.) test	9 (1.0)
Requests for mental care and improving consulting service	9 (1.0)
Concerns of impact of radiation on next pregnancy	8 (0.9)
Request for health exam/checkup	8 (0.9)
Requests for breast milk test	6 (0.7)
Requests for Fukushima Health Management Survey	4 (0.5)
Matters regarding external exposure (distributing radiation-monitoring badges, dosimeters, etc.)	4 (0.5)
Requests for support through resources/gasoline	3 (0.3)

(2012)

7,139 Respondents, 1,481 free entries (20.7%)

Cases (%)

The impact of radiation on the fetus/child	391 (26.4)
Requests for distributing information regarding radiation and publication of research results	191 (12.9)
Opinions/complaints about this study	156 (10.5)
Impact of radiation on baby food/food	140 (9.5)
Impact of radiation on water	112 (7.6)
Concerns of radiation while going/playing outside	112 (7.6)
Bad physical condition ※※	78 (5.3)
Concerns and complaints regarding family separation/evacuation	64 (4.3)
Concerns and complaints regarding the reliability/insufficiency of information	60 (4.1)
Request for health exam/checkup	58 (3.9)
Requests for Fukushima Health Management Survey	56 (3.8)
Request regarding overall test/health examination	54 (3.6)
The impact of radiation on breast milk/milk	53 (3.6)
Child-rearing consultation ※※	52 (3.5)
Requests for decontamination/playgrounds	48 (3.2)
Requests for thyroid tests	47 (3.2)
Requests regarding internal exposure (whole body counter, etc.) test	46 (3.1)
Requests regarding the improvement of child rearing support service	44 (3.0)
Concerns and complaints regarding insufficient medical service	43 (2.9)
Improving medical service and requests regarding physical care	37 (2.5)
Related to the outcome of this pregnancy	36 (2.4)
Approval of this study	33 (2.2)
Complaints of their own mental issues	28 (1.9)
Concerns of impact of radiation on next pregnancy	24 (1.6)
Matters regarding economic concern/burden	23 (1.6)
Requests for economic support	23 (1.6)
Requests for mental care and improving consulting service	18 (1.2)
Requests for breast milk test	18 (1.2)
Matters regarding external exposure (distributing radiation-monitoring badges, dosimeters, etc.)	7 (0.5)
Requests regarding evacuation support	4 (0.3)
Requests for support through resources/gasoline	3 (0.2)

Requests regarding evacuation support	2 (0.2)
Concerns and complaints regarding insufficient resources	0 (0.0)
Requests for urine analysis	0 (0.0)
Entry out of category	115 (13.4)

Requests for urine analysis	3 (0.2)
Concerns and complaints regarding insufficient resources	0 (0.0)
Entry out of category	222 (15.0)

※The denominator of the ratio of the entered contents were the number of people who provided some answer in free entries. Includes multiple responses.

***Contents that were not found in the 2011/2012 study

***Contents that were not found in the 2011 study

Breakdown of topics

(2011)

8,812 respondents, 3,722 free entries (42.2%)

	Cases (%)
The impact of radiation on the fetus/child	1,102 (29.6)
Requests for distributing information regarding radiation and publication of research results	725 (19.5)
The impact of radiation on breast milk/milk	668 (17.9)
Concerns and complaints regarding the reliability/insufficiency of information	542 (14.6)
Concerns and complaints regarding family separation/evacuation	506 (13.6)
Impact of radiation on baby food/food	476 (12.8)
Concerns regarding the impact of radiation on water	441 (11.8)
Requests for breast milk test	425 (11.4)
Request regarding overall test/health examination	416 (11.2)
Concerns of radiation while going/playing outside	382 (10.3)
Requests for economic support	363 (9.8)
Opinions/complaints for this study	359 (9.6)
Concerns and complaints regarding insufficient medical service	348 (9.3)
Requests regarding internal exposure (whole body counter, etc.) test	305 (8.2)
Requests for support through resources/gasoline	275 (7.4)
Concerns and complaints regarding insufficient resources	244 (6.6)
Requests for decontamination/playgrounds	238 (6.4)
Matters regarding economic concern/burden	237 (6.4)
Request for health exam/checkup	227 (6.1)
Requests for Fukushima Health Management Survey	215 (5.8)
Complaints of their own mental issues	211 (5.7)
Improving medical service and requests regarding physical care	173 (4.6)
Related to the outcome of this pregnancy	159 (4.3)
Matters regarding external exposure (distributing glass batch, dosimeter, etc.)	125 (3.4)
Concerns of impact of radiation on next pregnancy	112 (3.0)
Requests for thyroid tests	109 (2.9)
Requests for mental care and improving consulting service	78 (2.1)
Approval of this study	78 (2.1)
Requests regarding evacuation support	74 (2.0)

Child rearing consultation (Baby food, how to play, how to interact)	39 (1.0)
Requests for urine analysis	16 (0.4)
Entry out of category	201 (5.4)

※The denominator of the ratio of the entry contents are the number of people who included free entries Includes multiple choices.

